Power Management & Supply Selection Guide

www.infineon.com/powermanagement

Never stop thinking

Introduction

INFINEON'S POWER SEMICONDUCTOR PHILOSOPHY is rather simple: if we invest in development of a new power semiconductor product, it must be substantially superior to any comparable competitor power semiconductor. For the past seven years, Infineon's power semiconductors – CoolMOS™ Super Junction High-Voltage MOSFETs, thinQ!™ Silicon Carbide Schottky Diodes, OptiMOS® 25 & 30V MOSFETs, CoolSET™, PWM / CoolMOS™ combinations, and now OptiMOS®2 100V MOSFETs, OptiMOS®3 30V MOSFETs, CoolMOS™ CP 500V Series and the Second Generation 600V Silicon Carbide Schottky Diodes – exemplify this philosophy. Put us to the test and see why Infineon's Power Semiconductors lead to your Superior Solutions.

POWER MANAGEMENT for application areas such as telecom and information processing systems, continually presents new challenges: growing power demands requiring greater power density, higher efficiency and lower SMPS cost, while available space is constantly shrinking.

Content

ICs

Discretes

Gate Driver

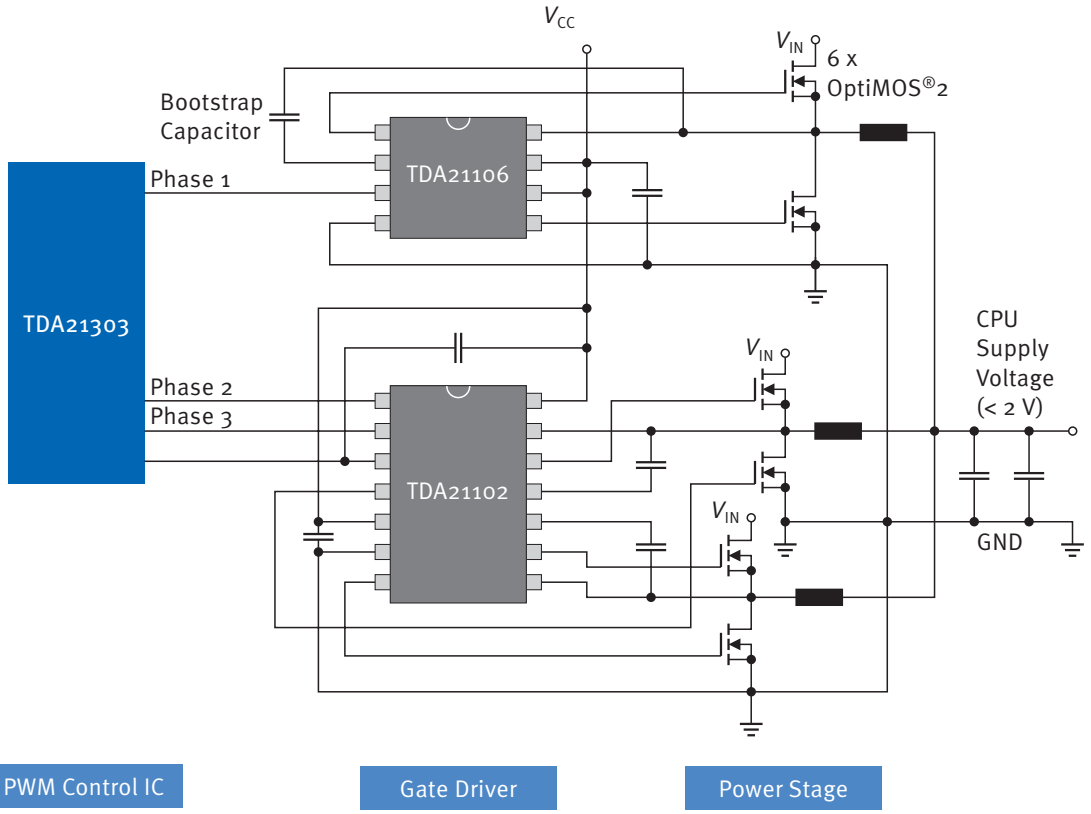
TDA21102 / TDA21103 / TDA21106 / TDA21107

- Drivers for N-Channel MOSFETs
- Shoot-through protection – adaptive dead-time control
- Tri-state PWM input
- Supply voltage UVLO – Under Voltage LockOut
- Compatible with standard multiphase PWM controllers
- Adjustable high side MOSFET gate driver voltage

PWM Control IC

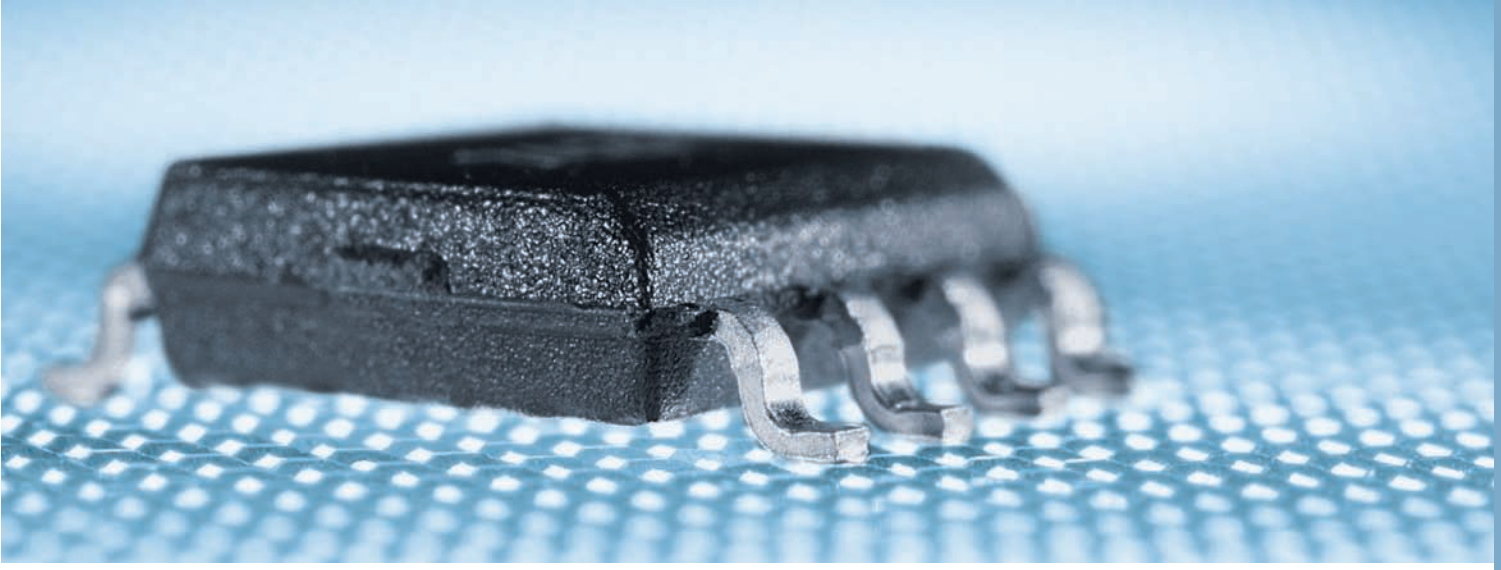
TDA21301 / TDA21302 / TDA21303

- Multiphase operation
- Active droop compensation for fast transient response
- Smooth VCORE voltage transient during dynamic VIDs
- Power stage thermal balance
- Hiccup mode over current protection
- Programmable switching frequency
- UVLO – Under Voltage LockOut
- Programmable soft start and power sequence
- High output ripple frequency times numbers of phases



Application Example:

Standalone gate driver / application circuit (3-phase solution with single and dual gate driver)



Gate Driver	High Performance		Cost Performance Optimized	
	TDA21106	TDA21102	TDA21107	TDA21103
Package	SO-8	SO-14	SO-8	SO-14
ROHS-compliant	✓	✓	✓	✓
Number of channels	1	2	1	2
Maximum junction temperature	-25 to 150°C	-25 to 150°C	0 to 150°C	0 to 150°C
Supply voltage, V_{CC}	25 V	25 V	15 V	15 V
BOOT to GND	45 V	45 V	15 V	30 V
PHASE to GND DC	-1 ~ 25 V	-1 ~ 25 V	30 V	15 V
PHASE to GND dynamic	-20 ~ 30 V [1]	-20 ~ 30 V [1]	-10 ~ 30 V [2]	–
Switching frequency	2 MHz	2 MHz	1 MHz	1 MHz
Driving capability -HS	Source: 4 A Sink: 4 A	Source: 4 A Sink: 4 A	Source: 3 A Sink: 3 A	Source: 2 A Sink: 2 A
Driving capability -LS	Source: 4 A Sink: 4 A	Source: 4 A Sink: 4 A	Source: 3 A Sink: 3 A	Source: 2 A Sink: 2 A
Typical propagation delay time	10 ~ 20 ns	15 ~ 20 ns	15 ~ 20 ns	45 ~ 60 ns
Power on overvoltage protection	–	–	–	✓
Integrated bootstrap diode	✓	✓	✓	✓
Product status	Production	Production	Production	Production

1) $t_{pulse\ max}$ = 500 ns, Maximum Duty Cycle = 2%
2) $t_{pulse\ max}$ = 200 ns

PWM	TDA21301	TDA21302	TDA21303
VRM / VRD	VR10.1	VR10	VR10 / VR next generation
Package	TSSOP-28	SO-32	VQFN-40
ROHS-compliant	✓	✓	✓
Number of phases	2 ~ 4	2 ~ 4	2 ~ 4
VID bits	6	6	6
Output voltage	0.8375 ~ 1.6 V	0.8375 ~ 1.6 V	0.8375 ~ 1.6 V
Inductor DCR sensing	✓	–	–
MOSFET RDS(on) sensing	–	✓	✓
OCP, OVP	✓	✓	✓
Dynamic VIDs (VIDs on the fly)	✓	✓	✓
Switching frequency	50 – 400 kHz	50 – 400 kHz	50 – 400 kHz

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

TDA21801 – Fan Speed Controller

WITH THE NEW fans peed controller TDA21801, essential system monitoring features of switched mode power supplies (SMPS) such as adjustable minimum fan speed, fan ON/OFF and over-temperature protection (OTP) can be easily implemented. Only few external components added to the IC are necessary for it.

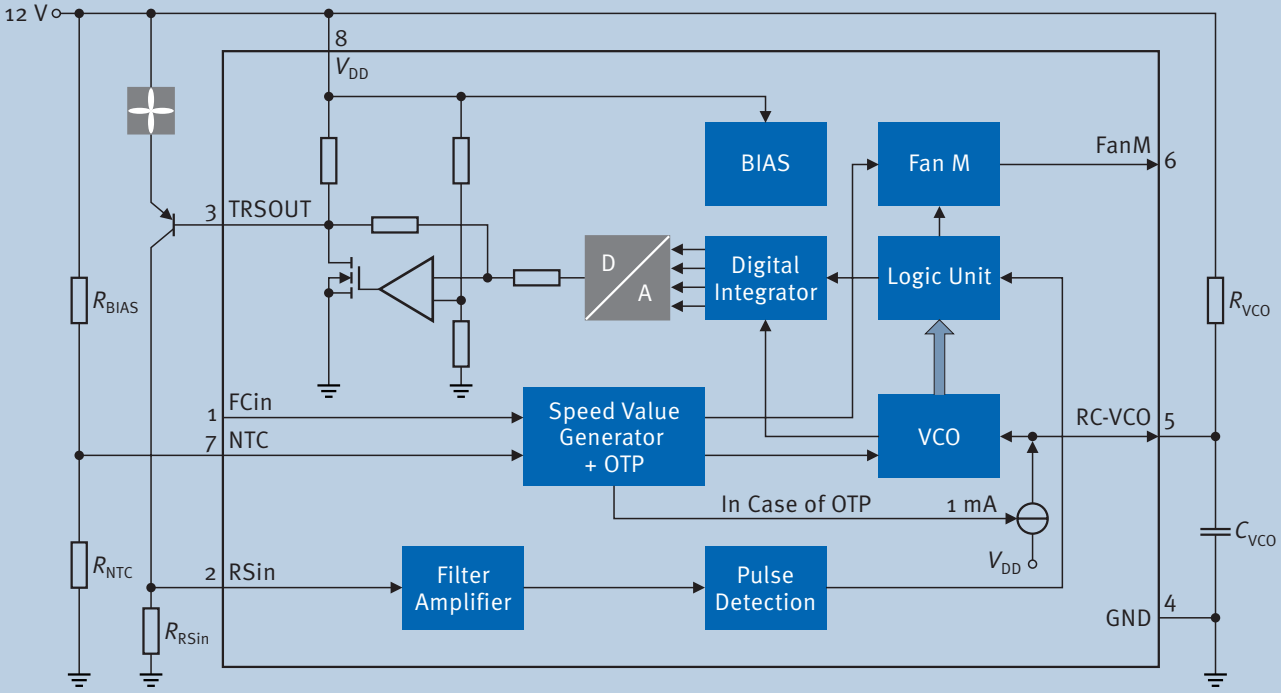
THE TDA21801 is designed for applications using 3- or 4-wire fan solutions like PC silver boxes, Server silver box AC/DC converter and industrial/medical power supplies.

Benefits

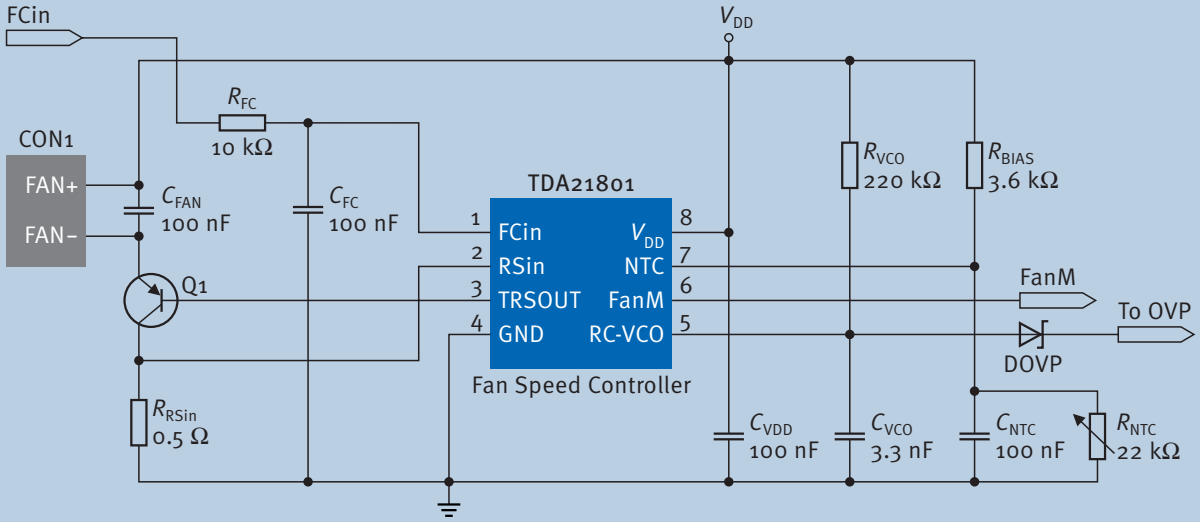
- Full control over fan speed due to precision reference
- Low system cost when replacing 4-wire fans
- Reduced noise level
- Increased safety of power supplies

Features

- In combination with 2-wire fans same functionality as 4-wire fan solution
- Overtemperature protection feature to protect system and power supply
- Adjustable minimum fan speed (750 rpm to 4000 rpm)
- Fan speed can be increased by external PWM or analogue signal
- SO-8 Package / ROHS compliant



Block Diagram



Typical Application Circuit

SMPS IC Overview

	PWM Controller								
	Quasiresonant				Fixed Frequency				
	TDA4605-2 TDA4605-3	TDA16846 TDA16847	ICE1QS01 ICE1QS01G	ICE2QS01	ICE3BS02L	ICE3A(B)S02	ICE3DS01	ICE2A(B)S01	TDA16850-2
	General purpose control IC	Universal, high performance control IC including low-power standby and power factor correction	PWM Control IC including advanced burst mode, PFC and frequency reduction for best-in-class efficiency ratings	PWM Control IC including advanced burst mode, PFC and frequency reduction for best-in-class efficiency ratings + active burst mode + start up cell	General purpose Control IC with enhanced ICE3DS01 features	General purpose Control IC with enhanced ICE3DS01 features	General purpose Control IC with enhanced ICE2A(B)S01 features	General purpose Control IC	Control with special featu for CRT mon applications
Typical Application	CVT, VCR, adapter	CTV, VCR, set-top-box, adapter	CTV, VCR, adapter, LCDTV	CTV, VCR, adapter	Applications exceeding the max. power range of CoolSET: charger, adapter, auxiliary power supplies, low end CTV, set-top-box, DVD	Applications exceeding the max. power range of CoolSET: charger, adapter, auxiliary power supplies, low end CTV, set-top-box, DVD	Applications exceeding the max. power range of CoolSET: charger, adapter, auxiliary power supplies, low end CTV, set-top-box, DVD, LCD	Applications exceeding the max. power range of CoolSET: charger, adapter, auxiliary power supplies, low end CTV, set-top-box, DVD	Monitors, CTVs, adapters, chargers
General Features									
Operating mode	Quasiresonant	Quasiresonant Fixed Frequency Synchronized	Quasiresonant	Quasiresonant	Fixed Frequency	Fixed Frequency	Fixed Frequency	Fixed Frequency	Fixed Freque synchronize
Switching frequency	< 200 kHz	< 250 kHz adjustable in fixed frequency mode	< 250 kHz	< 250 kHz	100 kHz (67kHz)	100 kHz (67kHz)	110 kHz	100 kHz (67kHz)	60 kHz fixed < 130 kHz sy
Standby frequency	approx. 20 kHz	adjustable	20 kHz	80 kHz / Active Burst Mode	–	–	–	21.5 kHz (20 KHz)	20 kHz
Maximum duty cycle	unlimited	unlimited	unlimited	unlimited	72%	72%	72%	72%	60%
Primary regulation without additional components	✓	✓	✓	✓	–	–	–	–	–
Standby power	5 W / 400 mW	< 1 W / 400 mW	< 1 W / 400 mW	< 1 W / 500 mW	100 mW/no load	100 mW/no load	100 mW/no load	< 1 W / no load	< 1 W / no loa
Low standby power mode active burst mode	–	–	–	–	700 mW/500 mW	700 mW/500 mW	480 mW/300 mW	–	–
Soft switching for low EMI	–	–	–	–	✓	✓	✓	✓	✓
Maximum drain-source voltage @ 125°C T_j	*	*	*	*	*	*	*	*	–
Power range (85 ... 270 V) without heat sink	*	*	*	*	*	*	*	*	–
Power range (190 ... 270 V) without heat sink	–	–	–	–	–	–	–	–	–
Integrated auxiliary power supply	–	–	–	–	–	–	–	–	✓
Integrated 500V start-up cell	–	–	–	✓	✓	✓	✓	–	–
PFC functionality	–	Charge Pump	Charge Pump	Charge Pump	–	–	–	–	–
Protection Features									
Undervoltage lock-out	✓	✓	✓	✓	✓	✓	✓	✓	✓
Overload and open loop correction protection	✓	✓	✓	✓	✓	✓	✓	✓	✓
Overload protection	✓	✓	✓	✓	✓	✓	✓	✓	–
Secondary undervoltage	✓	✓	✓	✓	–	–	–	–	–
Cycle by cycle current limitation	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sophisticated power limitation management	✓	✓	✓	✓	✓	✓	✓	✓	✓
Temporary high-power circuit	–	TDA16847	–	–	✓	✓	✓	–	–
Adjustable peak current limitation via external resistor	✓	✓	✓	✓	✓	✓	✓	✓	✓
Current limitation via internal sense field	–	–	–	–	–	–	–	–	–
Demagnetization protection	✓	✓	✓	✓	–	–	–	–	–
Thermal shut-down (with auto-restart)	–	–	–	–	–	✓	–	✓	✓
Thermal shut-down with latch off	✓	✓	✓	–	✓	–	✓	–	–
Auto restart mode for all protection features	–	–	–	✓	–	✓	–	✓	–
Auto restart mode for overload, open loop, V_{cc} undervoltage, short optocoupler	–	–	–	–	✓	–	✓	–	–
Latch-off mode for V_{cc} overvoltage, overtemperature and short winding/short diode	–	–	–	–	✓	–	✓	–	–
Latch-off enable pin	–	–	–	–	–	–	–	–	–
Brown out protection	–	–	–	–	–	–	–	–	–
Supply current with inactive gate (typ.)	11 mA	5 mA	11 mA	2.5 mA	6.5 mA	7.0 mA (6.5 mA)	7.2 mA	6.5 mA	3 ... 10 mA
VCC operating range	7.5 ... 15.5 V	8 ... 16 V	9 ... 20 V	11 ~ 25 V	8.5 ... 21 V	8.5 ... 21 V	8.5 ... 21 V	8.5 ... 21 V	8.5 ... 22 V
DIP-package	DIP-8	DIP-14	DIP-8	DIP-8	DIP-8	DIP-8	DIP-8	DIP-8	DIP-8
SMD-package	–	SO-14	SO-8	–	–	SO-8	SO-8	SO-8	–
ISODRAIN-package	–	–	–	–	–	–	–	–	–

* Depending on topology and switching transistor
** Only available in ISODRAIN package

	Combo	PFC Controller		CoolSET™: Controller with CoolMOS™ in one Package						
	PWM+CCM PFC	CCM	DCM	Fixed Frequency						
	TDA16888	ICE1PCS01 ICE1PCS02	TDA4862 TDA4863 TDA4863-2	ICE3A1065LJ	F3 Jitter Series ICE3B0365(J) ICE3B0565(J) ICE3B1565(J)	ICE3A0365L ICE3A1065L ICE3A1565L	F3 Series ICE3A(B)0365 ICE3A(B)0565 ICE3A(B)1065 ICE3A(B)1565 ICE3A(B)2065 ICE3A(B)2565	F3 Isodrain ICE3A(B)2065P(I) ICE3A(B)3065P(I) ICE3A(B)3565P(I) ICE3A(B)5065P(I) ICE3A(B)5565P(I)	F2 650V Series ICE2A(B)0565 ICE2A0565 ICE2A(B)165 ICE2A(B)265 ICE2A(B)365 ICE2A(B)765P2(I)**	F2 800V Series ICE2A180 ICE2A280 ICE2A380P2**
	High performance power combi controller including PFC and PWM stage	Standalone PFC controller for boost topology with soft-start	PFC Controller for high-power factor and active harmonic filter	Full protection features + ultra low power standby mode and internal leading edge blanking + bullt-in softstart + active burst mode + startup cell + built-in blanking window + latch-off mode + latch enable pin	Full protection features + ultra low power standby mode and internal leading edge blanking + softstart + active burst mode + startup cell + adjustable blanking window + jittering	Full protection features + ulta low power standby mode and internal lead ing edge blanking + softstart + active burst mode + startup cell + adjustable blanking window + latch-off mode	Full protection features + ultra low power standby mode and internal leading edge blanking + softstart + active burst mode + startup cell + adjustable blanking window	Full protection features + ultra low power standby mode and internal leading edge blanking + softstart + active burst mode + startup cell + adjustable blanking window	Full protection features + low power standby mode and internal leading edge blanking +softstart	Full protection features + low power standby mode and internal leading edge blankin + softstart
	Industrial aircon, motor drive, PC, server, adapter	Industrial, PC, motor drive, white goods	Ballast, CTV, PC monitor, adapter	Charger, auxiliary supplies, PC & Display standby supply, adapter, STB, DVD, VCR	Charger, auxiliary supplies, PC & Display standby supply, adapter, STB, DVD, VCR	Charger, auxiliary supplies, PC & Display standby supply, adapter, STB, DVD, VCR	Charger, auxiliary supplies, PC & Display standby supply, adapter, STB, DVD, VCR	Charger, auxiliary supplies, PC & Display standby supply, adapter, STB, DVD, VCR	Charger, auxiliary supplies, PC & Display standby supply, adapter, STB, DVD, VCR	Charger, auxiliary supplies PC & Display standby supply, adapter, STB, DVD, VCR
ency d	Fixed Frequency Continuous Conduction Mode	Fixed Frequency	Discontinuous Conduction Mode	Fixed Frequency	Fixed Frequency	Fixed Frequency	Fixed Frequency	Fixed Frequency	Fixed Frequency	Fixed Frequency
l nchr.	up to 200 kHz	up to 250 kHz 67 kHz	Free-running 30 ... 300 kHz	100 kHz	67 kHz	A: 100 kHz B: 67 kHz	A: 100 kHz B: 67 kHz	A: 100 kHz B: 67 kHz	A: 100 kHz B: 67 kHz	100 kHz
	PWM 0 kHz / PFC 50%	–	–	–	–	–	–	–	down to 21.5 kHz (20 kHz)	down to 21 kHz
	PWM 50% / PFC 94%	95% @ 125 kHz	98%	75%	75%	72%	72%	72%	72%	72%
	–	–	–	–	–	–	–	–	–	–
ad	< 1 W / no load	–	n.a.	100 mW / no load	100 mW / no load	100 mW / no load	100 mW / no load	100 mW / no load	< 1 W / no load	< 1 W / no load
	–	–	✓	700 mW / 500 mW	700 mW / 500 mW	700 mW / 500 mW	700 mW / 500 mW	700 mW / 500 mW	–	–
	✓	–	–	✓	✓	✓	✓	✓	✓	✓
	–	–	–	650 V	650 V	650 V	650 V	650 V	650 V	800 V
	–	–	–	–	–	–	–	–	–	–
	–	–	–	–	–	–	–	–	–	–
	✓	–	–	–	–	–	–	–	–	–
	–	–	–	650 V startup cell	650 V startup cell	650 V startup cell	650 V startup cell	650 V startup cell	–	–
	✓	✓	✓	–	–	–	–	–	–	–
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓ **	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	output undervoltage protection			–	–	–	–	–	–	–
	PWM ✓ PFC ✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	–	✓	–	✓	✓	✓	✓	✓	✓	✓
	–	–	–	✓	✓	✓	✓	✓	–	–
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	–	–	–	–	–	–	–	–	–	–
	–	–	✓	–	–	–	–	–	–	–
	–	–	–	–	✓	–	✓	✓	✓	✓
	–	–	–	✓	–	✓	–	–	–	–
	–	–	–	–	✓	–	✓	✓	✓	✓
	–	–	–	✓	–	✓	–	–	–	–
	–	–	–	✓	–	✓	✓	–	–	–
	–	–	–	✓	–	–	–	–	–	–
	–	✓	–	–	–	–	–	–	–	–
	15 ... 40 mA	18 @ 125 kHz	4 mA	2.5 mA	2.5 mA	5.5 ... 8.1 mA	5.5 ... 8.1 mA	5.7 ...7.6 mA	5.3 ... 8.5 mA	6.5 ... 8.5 mA
	14 ... 19 V	10 ... 22 V	12.5 ... 20 V	10.3 ... 26 V	10.3 ... 26 V	8.5 ... 21 V	8.5 ... 21 V	8.5 ... 21 V	8.5 ... 21 V	8.5 ... 21 V
	DIP-20	DIP-8	DIP-8	DIP-8	DIP-8	DIP-8	DIP-8/DIP-7	–	DIP-8/DIP-7	DIP-7
	SO-20	SO-8	SO-8	–	–	–	SO-16-12	–	SO-16/12	–
	–	–	–	–	–	–	–	TO220-6	–	TO220-6

PWM Controller

TDA4605-2 / TDA4605-3

Control IC for Switched-Mode Power Supplies using MOS Transistor

- Fold-back characteristic protects external components
- Burst mode at secondary short-circuit
- Protection against open or a short of the control loop
- Mains undervoltage lock-out
- Soft-start for quiet start-up without noise
- Chip-over temperature protection
- Not for new designs, replaced by TDA16846

TDA16846 / TDA16847

SMPS Controller Supporting Low-power Standby and Power Factor Correction

- Line current consumption with PFC
- Stable and adjustable standby frequency
- Very low start-up current
- Soft-start for quiet start-up
- Freely usable fault comparators
- Synchronization and fixed frequency facility
- Over and undervoltage lock-out
- Switch off at mains undervoltage
- Temporary high-power circuit (only TDA16847)
- Mains voltage dependent fold-back point correction
- Continuous frequency reduction with decreasing load
- Adjustable ringing suppression time

ICE1QS01

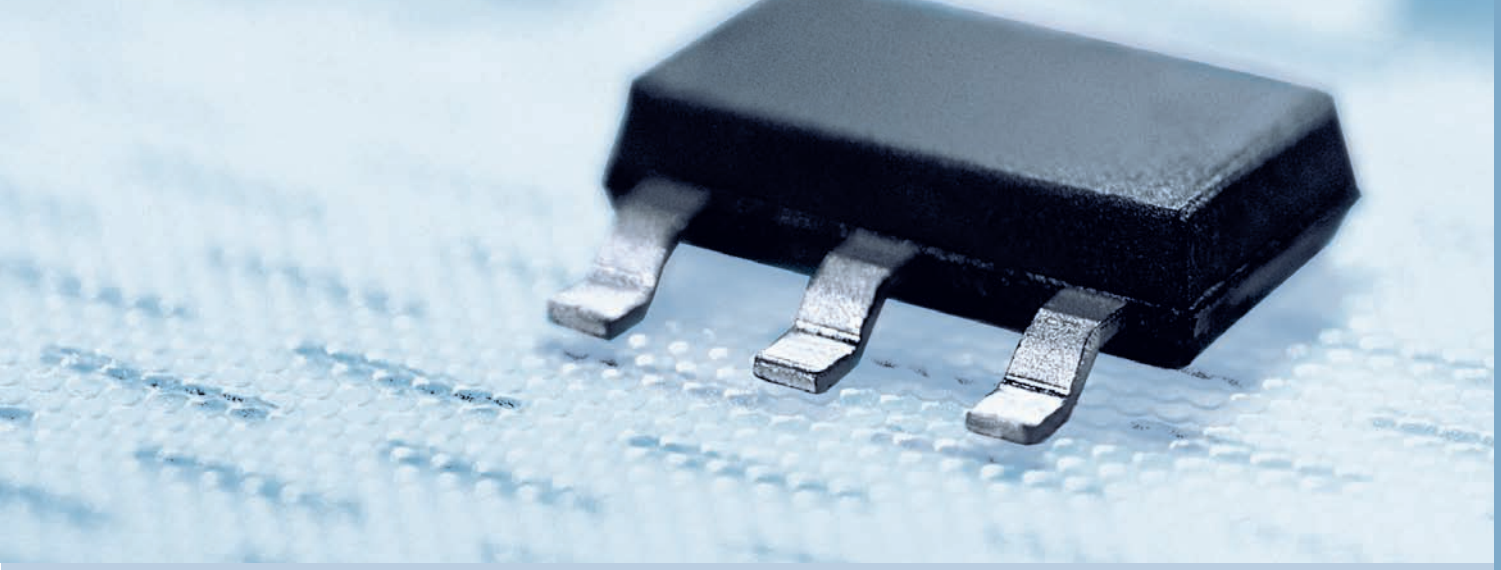
SMPS Controller with very few peripheral components, featuring Advanced Burst Mode, Frequency Reduction and Power Factor Correction

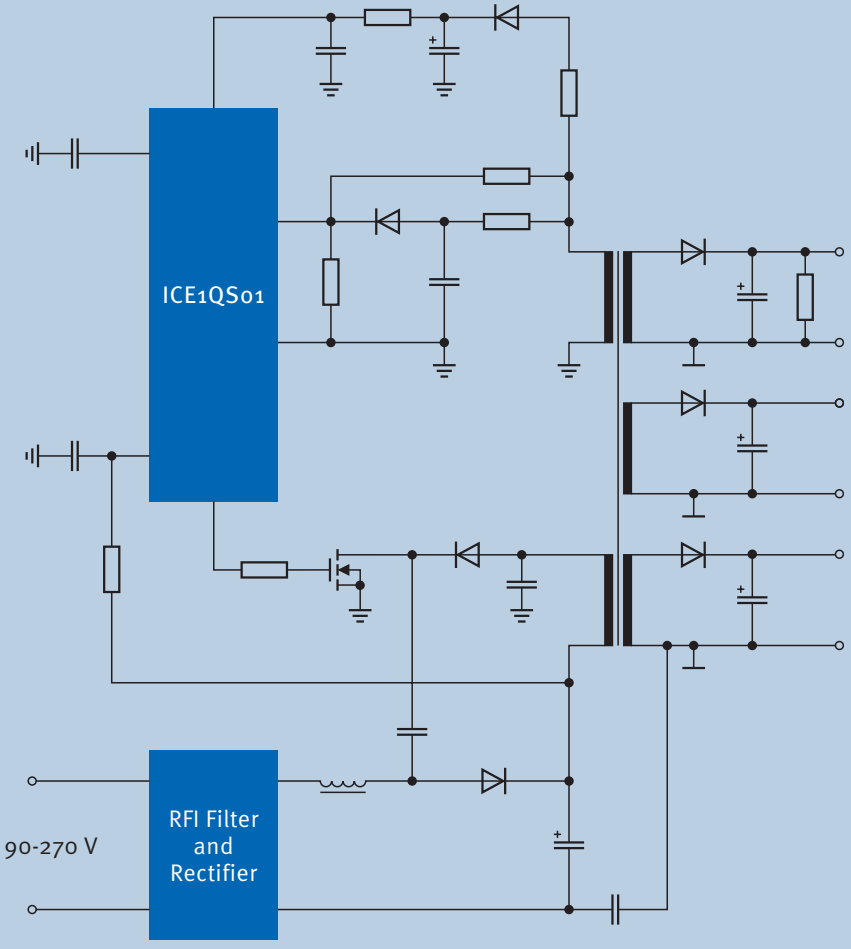
- Line current consumption with PFC
- Stable standby frequency of 20 kHz
- Advanced burst mode < 1 W @ 350 mW sec. power
- Soft-start for noiseless start-up
- Digital frequency reduction for higher efficiency and no-jitter designs
- Over and undervoltage protection
- Fold-back point correction for stable output power independent of line voltage variations
- Ringing suppression time controlled by output power
- Additional fault comparator optionally useable

TDA16850-2

SMPS Controller for CRT Monitors

- Controller for fly-back topology
- Current mode PWM with spike blanking
- Leading edge triggered pulse with modulation
- Fast, soft switching totem pole gate drive (1 A)
- Soft-start management for safe start-up
- Off mode with power consumption less than 1 W
- Fast and slow peak current limitation
- All protection features available





Application Example:
80 W Demoboard with ICE1QS01 and Primary Regulation

PWM Controller

ICE2XS01

Off-line SMPS Current Mode Controller

- PWM – Current Mode Controller
- 67 kHz and 100 kHz fixed frequency operation
- Max duty cycle up to 72%
- Frequency reduction for low standby
- Adjustable soft-start
- Propagation delay compensation
- Internal leading edge blanking
- Fully protected
- DIP-8 / SO-8

ICE3DS01

Off-line SMPS Current Mode Controller

- PWM and 500 V start-up cell in one package
- Active burst mode for ultra-low standby power (P_{IN} < 100 mW)
- Short-term overload function
- New protection: latched OFF or auto restart
- 110 kHz fixed frequency operation
- May duty cycle up to 72%
- Adjustable soft-start
- Propagation delay compensation
- Internal leading edge blanking
- Fully protected
- DIP-8 / SO-8

ICE3AS02

Additional features to ICE3DS01

- 100 kHz
- All protections : auto-restart

ICE3BS02

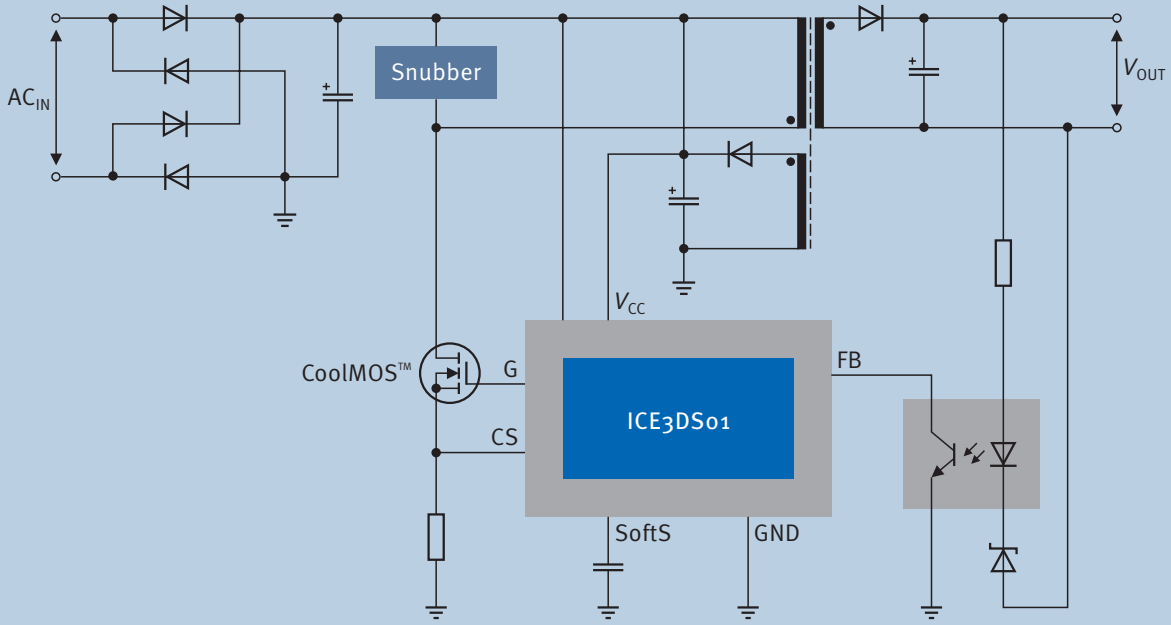
Additional features to ICE3DS01

- 67 kHz
- All protections : auto-restart

ICE3BS02L

Additional features to ICE3DS01

- 67 kHz
- DIP-8



Application Example:
Circuit Diagram for PWM Fly-back Converter

Smart Ballast Controller

ICB1FL02G

Smart Ballast Controller ICB1FL02G is designed to control a Fluorescent Lamp Ballast including

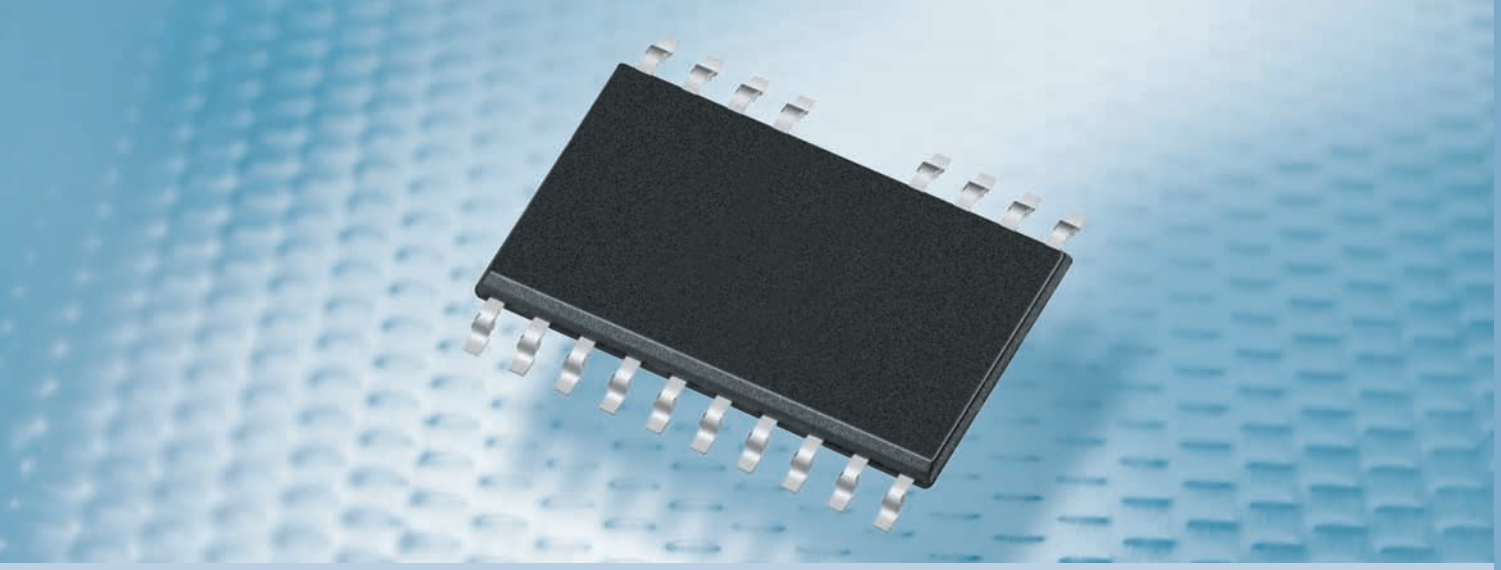
- Discontinuous Conduction Mode Power Factor Correction (PFC)
- Lamp Inverter Control and
- High Voltage Level-Shift Half Bridge Driver with Coreless Transformer Technology in one package.

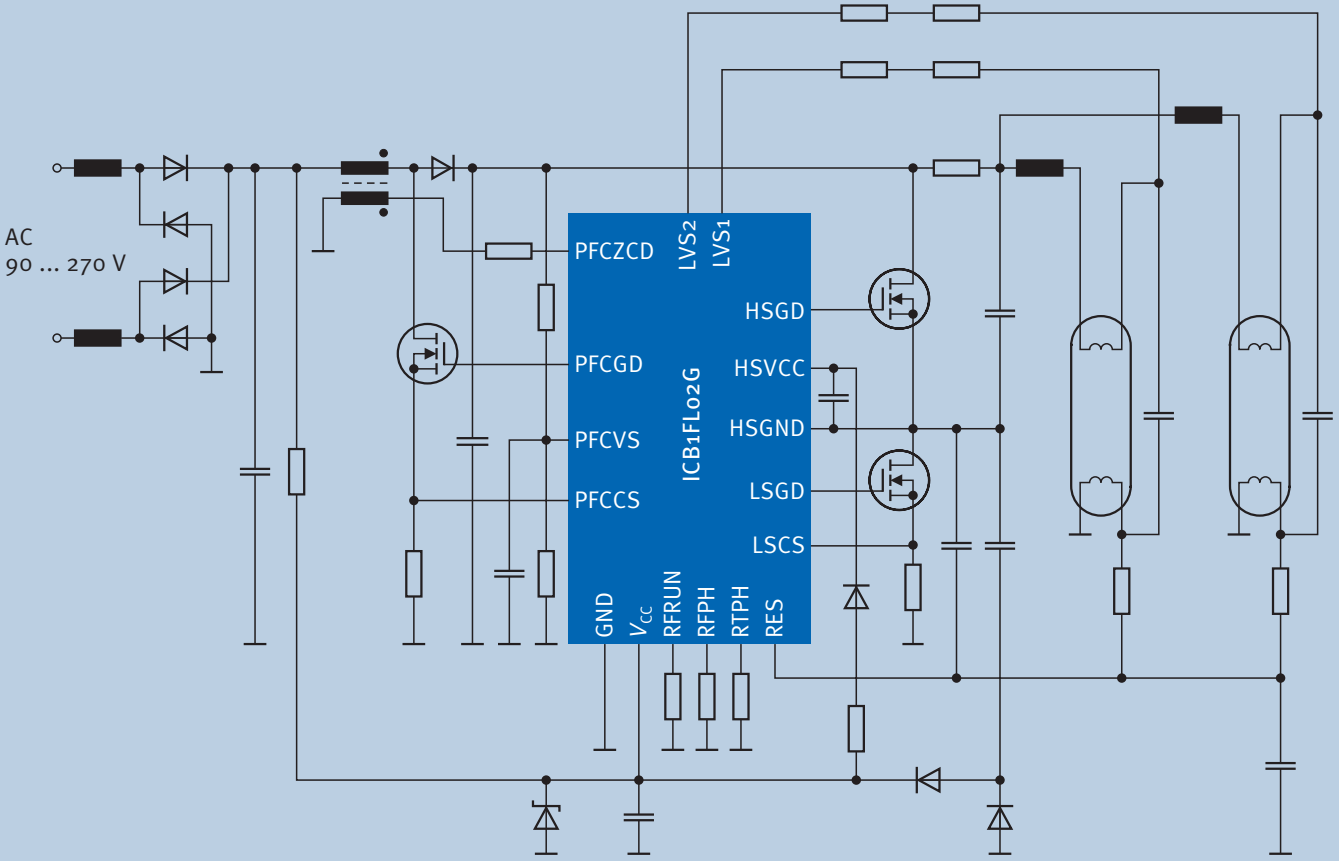
Product Highlights

- Critical conduction mode PFC with overcurrent and overvoltage protection and internal loop compensation
- End-of-life detection in multilamp topologies and detection of capacitive mode operation in T5 designs
- Improved reliability and minimized spread due to digital and optimized analog control functions

Short Form Data	min.	typ.	max.
Operating Voltage Range	10.5 V	–	17 V
Turn-on Threshold	–	14 V	–
Supply Current during UVLO and Fault Mode	–	–	150 µA
Operating Frequency of Inverter during Run Mode	20 kHz	–	100 kHz
Operating Frequency of Inverter during Preheating Mode	Run Frequency	–	150 kHz
Preheating Time	0	–	2000 ms
Dead Time between LS and HS Gate drive	–	1750 ns	–
Operating Voltage Range of floating HS Gate Drive	-900 V	–	+900 V
LS Current Limitation Threshold during Ignition	–	0.8 V	–
LS Current Protection Threshold	–	1.6 V	–
End-of-Life Detection Threshold	-230 µA	–	+230 µA
Amplitude Ratio for Detection of Rectifier Effect	0.85	–	1.15
Detection of non-ZVS Operation CapMode 1 & 2	–	–	–
PFC Preconverter control with critical and discontinuous CM	–	–	–
Maximum controlled on-time	–	23.5 µs	–
Hysteresis of Zero Current Detector	–	1 V	–
PFC current Limitation Threshold	–	1 V	–
Reference voltage for control of Bus Voltage	2.47 V	2.50 V	2.53 V
Overvoltage Detection Threshold	–	2.75 V	–
Undervoltage Detection Threshold	–	1.83 V	–
Open Loop Detection	–	0.375 V	
Junction Operating Temperature Range	-25°C	–	+125°C
Pb-free Lead Plating; ROHS compliant	–	–	–

Due to a minimum number of external components necessary, system costs can be brought down significantly. ICB1FL02G can be used and designed easily and is therefore a basis for cost effective ballast solutions of the future.





Block Diagram:
Smart Ballast Controller – ICB1FL02G

PFC and Combo Controller

ICE1PCS01

Stand-alone Power Factor Correction (PFC) Controller in Continuous Conduction Mode

- Easy to use with very few external components
- Average current control
- Programmable operating frequency (50 to 250 kHz)
- Unique set of protection features including brown-out protection and boost diode protection
- Precise internal reference voltage
- Unique soft-start
- Enhanced dynamic response
- Leading edge modulation

ICE1PCS02

Additional features to ICE1PCS01

- Brown out protection
- Fixed Frequency 67 kHz

TDA4862

Power Factor Controller (PFC) IC for High-power Factor and Active Harmonic Filter

- IC for sinusoidal line-current consumption
- Power factor approaching 1
- Controls boost converter as an active harmonics filter
- Internal start-up with low current consumption
- Zero current detector for discontinuous operation mode
- High current totem pole gate driver
- Trimmed ±1.4% internal reference
- Undervoltage lock out with hysteresis
- Very low start-up current consumption
- Pin compatible with world standard
- Output overvoltage protection
- Current sense input with internal low pass filter
- Totem pole output with active shutdown during UVLO
- Junction temperature range -40°C to +150°C
- Available in DIP-8 and SO-8 packages

TDA4863 / TDA4863-2

Power Factor Controller IC for High-power Factor and Low THD
Additional Features to TDA4862

- Reduced tolerance of signal levels
- Improved light load behavior
- Open loop protection
- Current sense input with leading edge blanking LEB
- Undervoltage protection

ICE1PD265

PFC CoolSET™ version of TDA4863

- 650 V avalanche rugged CoolMOS™
- $R_{DS(on)}$ = 1.1 Ω
- DSO-16 package
- PFC output power
  55 W @ V_{IN} = 90 V (T_A = 70°C)
  140 W @ V_{IN} = 180 V (T_A = 70°C)
- Reduced size and assembling costs
- Highest efficiency due to lower power dissipation

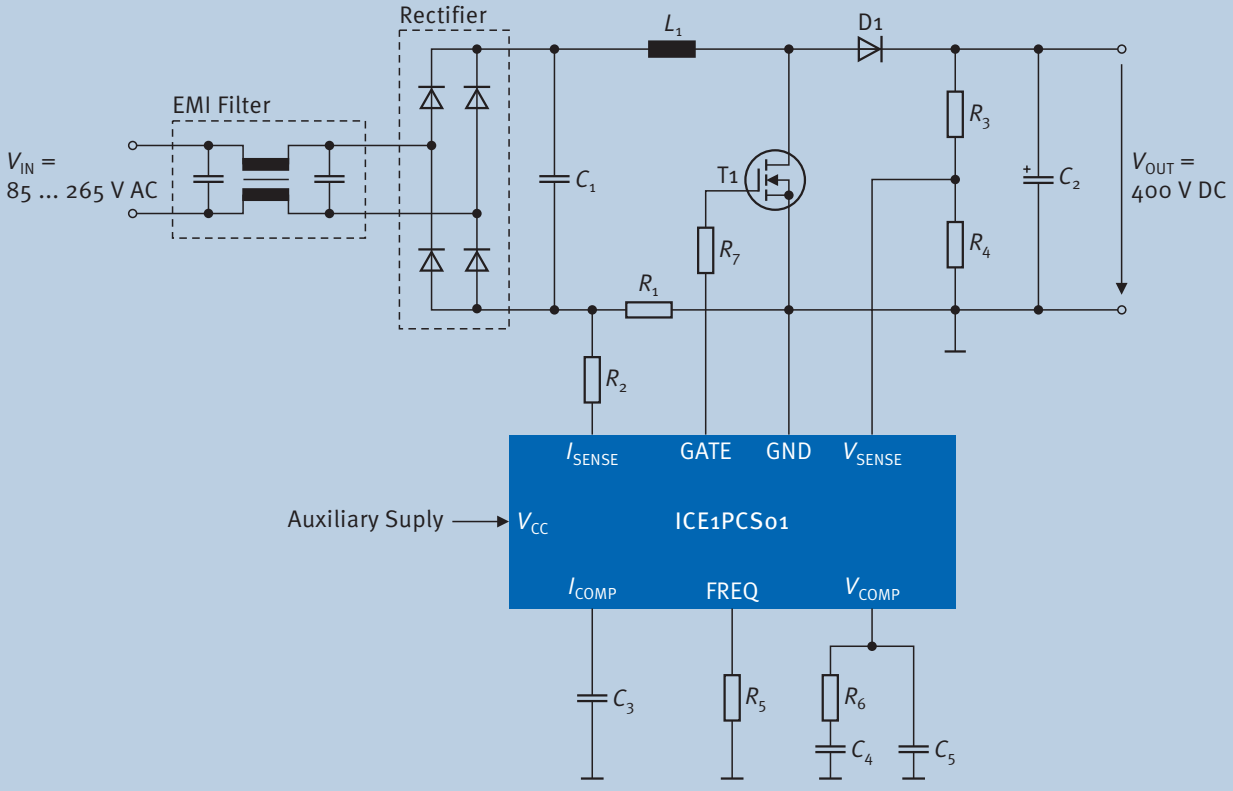
TDA16888

High-performance Power Combi Controller
PFC Section

- IEC 1000-3 compliant
- Additional operation mode as auxiliary power supply
- Fast, soft switching totem pole gate drive (1 A)
- Leading edge triggered pulse width modulation
- Peak current limitation
- Continuous/discontinuous mode possible
- 94% maximum duty cycle

PWM Section

- Improved current mode control
- Fast, soft switching totem pole gate drive (1 A)
- Soft-start management
- Topologies are forward or fly back
- 50% maximum duty cycle



Application Example:
Circuit Diagram for PFC Boost Converter

CoolSET™

ICE2Axxx / ICE2Bxxx

Off-line SMPS Controller with 650 V / 800 V CoolMOS™ on Board
(High Protection & Energy Saving Solution)

- 650 V or 800 V avalanche rugged CoolMOS
- Typical $R_{DS(on)}$ = 0.45 Ω ... 4.7 Ω at T_j = 25°C

General Features

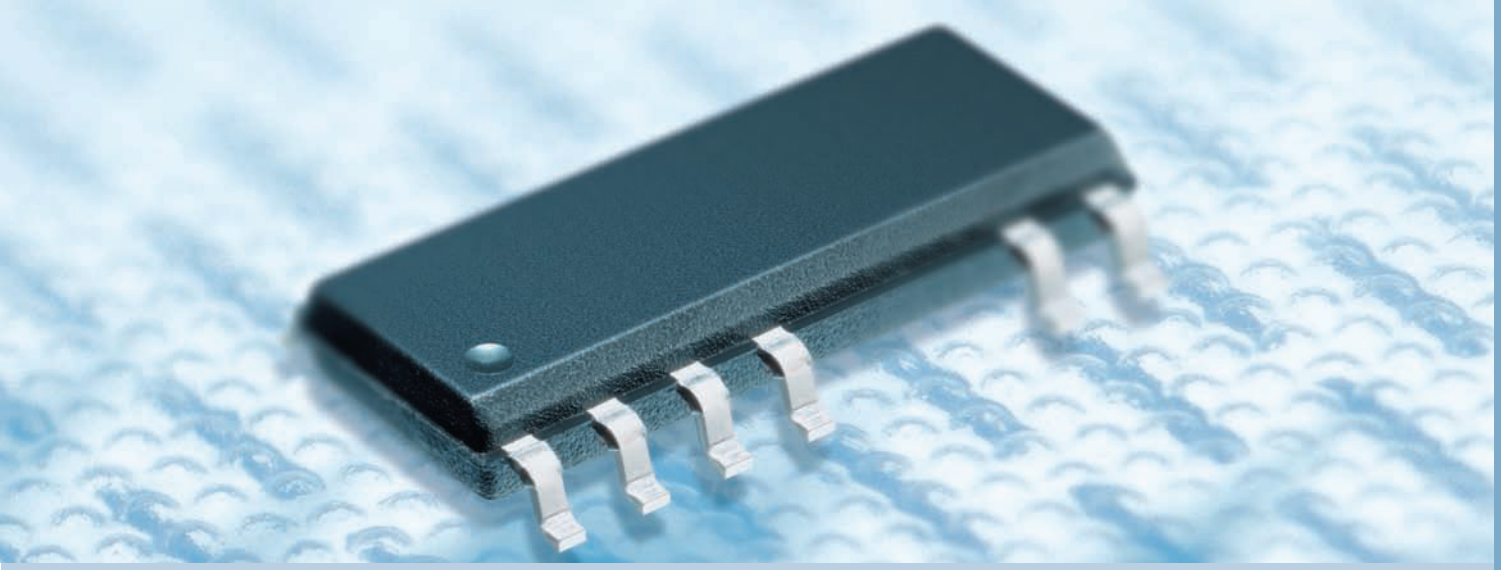
- Frequency reduction for lowest standby power (below 1 W) to meet European requirements
  100 kHz / 67 kHz switching frequency
- Internal leading edge blanking
- Modulated gate drive for soft switching
- High peak power accuracy
- DIP-7, DIP-8 or P-TO220-6, I^2-PAK package

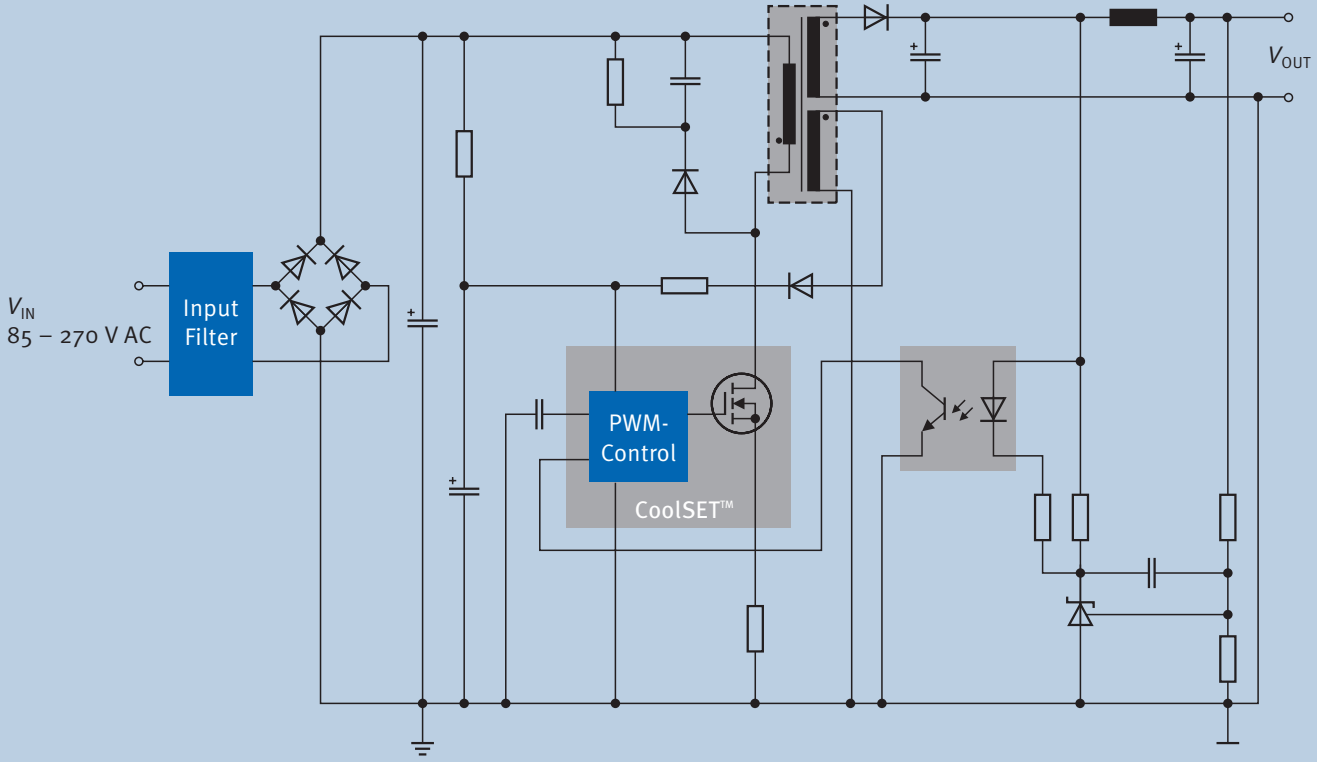
ICE3Axxxx / ICE3Bxxxx

Off-line SMPS Controller with 650 V CoolMOS on Board
(High Protection & Energy Saving Solution)

Additional Features to ICE2Axxx / ICE2Bxxx

- Startup cell
- Active burst mode
- Lowest standby power < 0.1 W
- Adjustable blanking window for load jump
- Switching frequency jittering (for J and LJ version)
- Latch off mode protection (for L and LJ version)
- Frequency jittering (for J and LJ version)
- Latch enable pin (for LJ version)

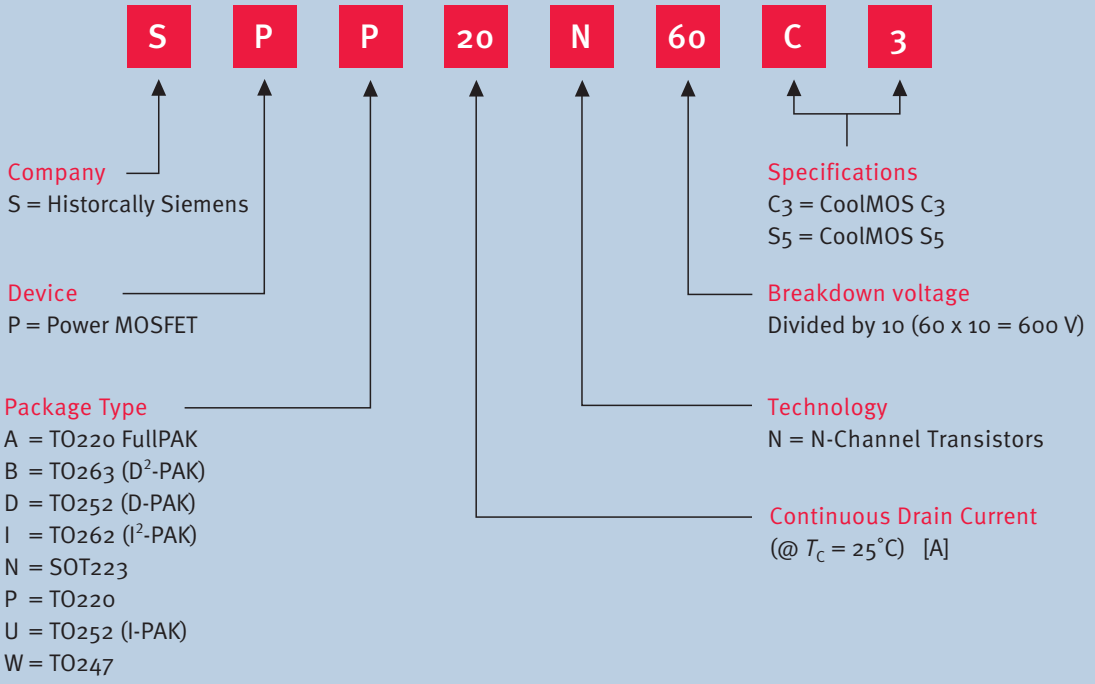




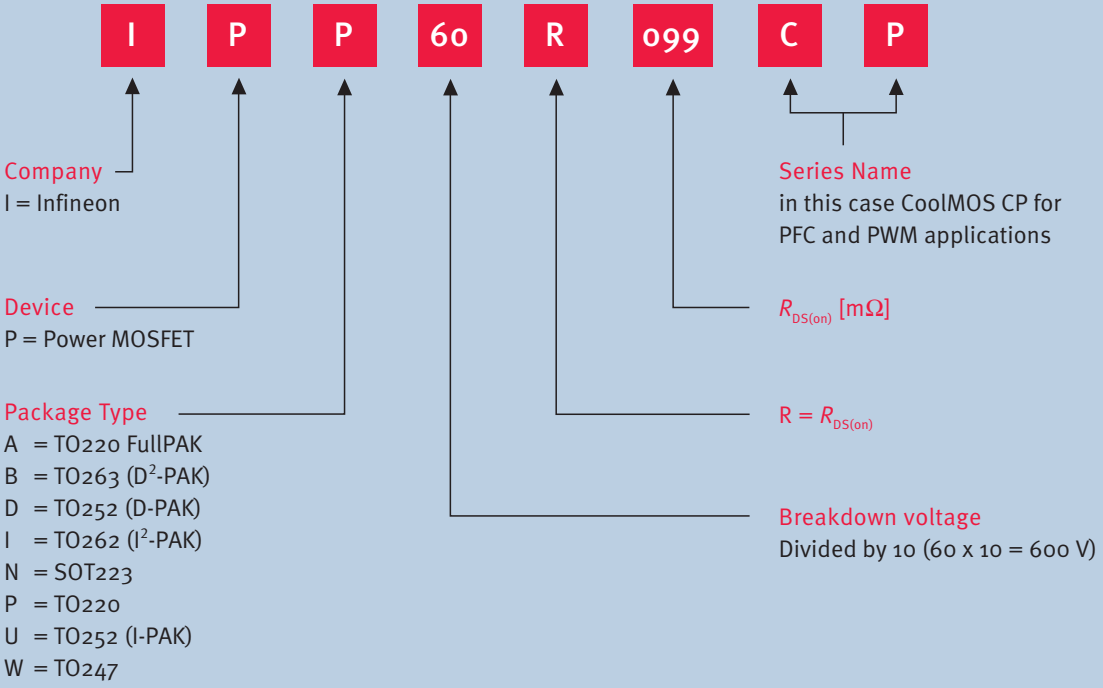
Application Example:
CoolSET™ for Off-line Switch Mode Power Supplies

Naming System

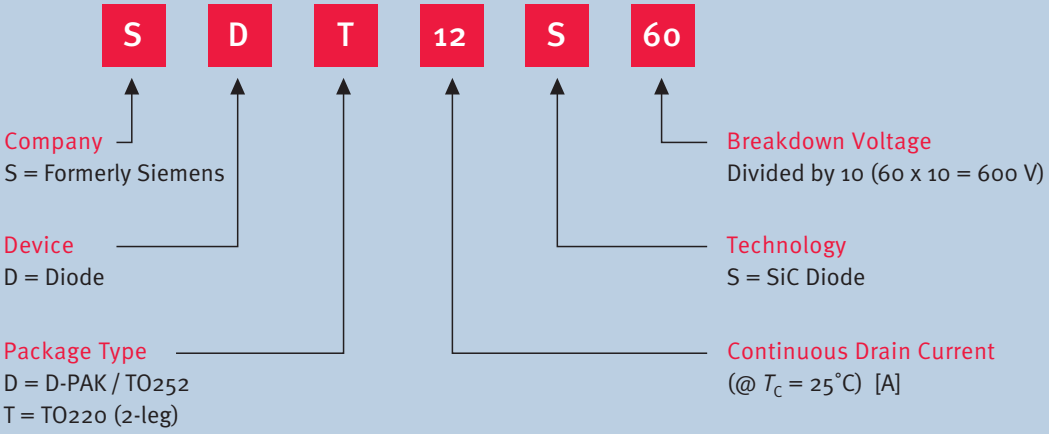
Power MOSFETs (> 300 V)



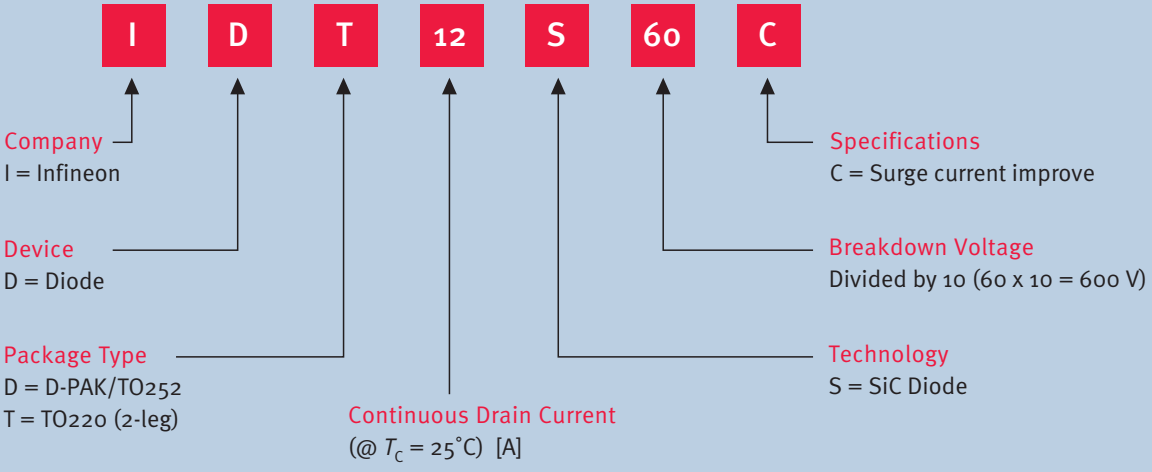
Power MOSFETs (> 300 V) - CP Generation



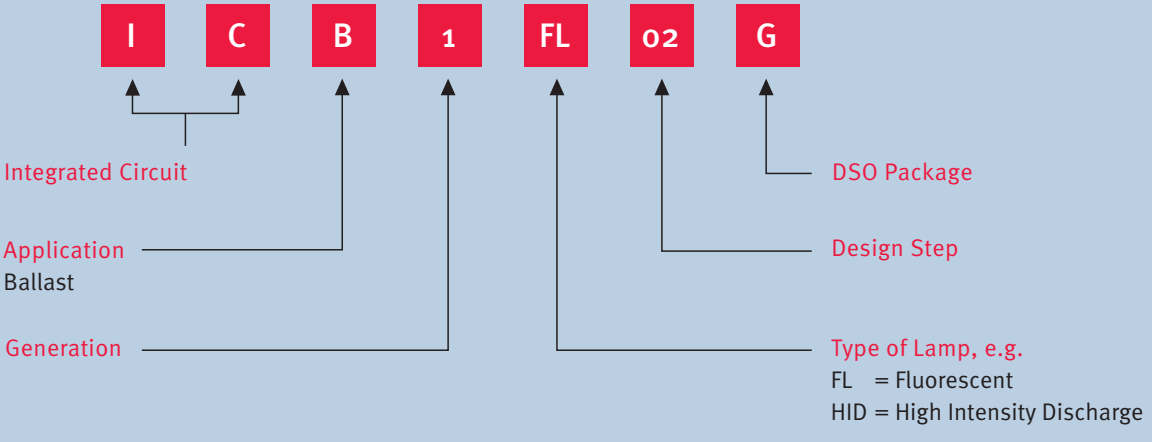
thinQ!™



thinQ!™ 2G

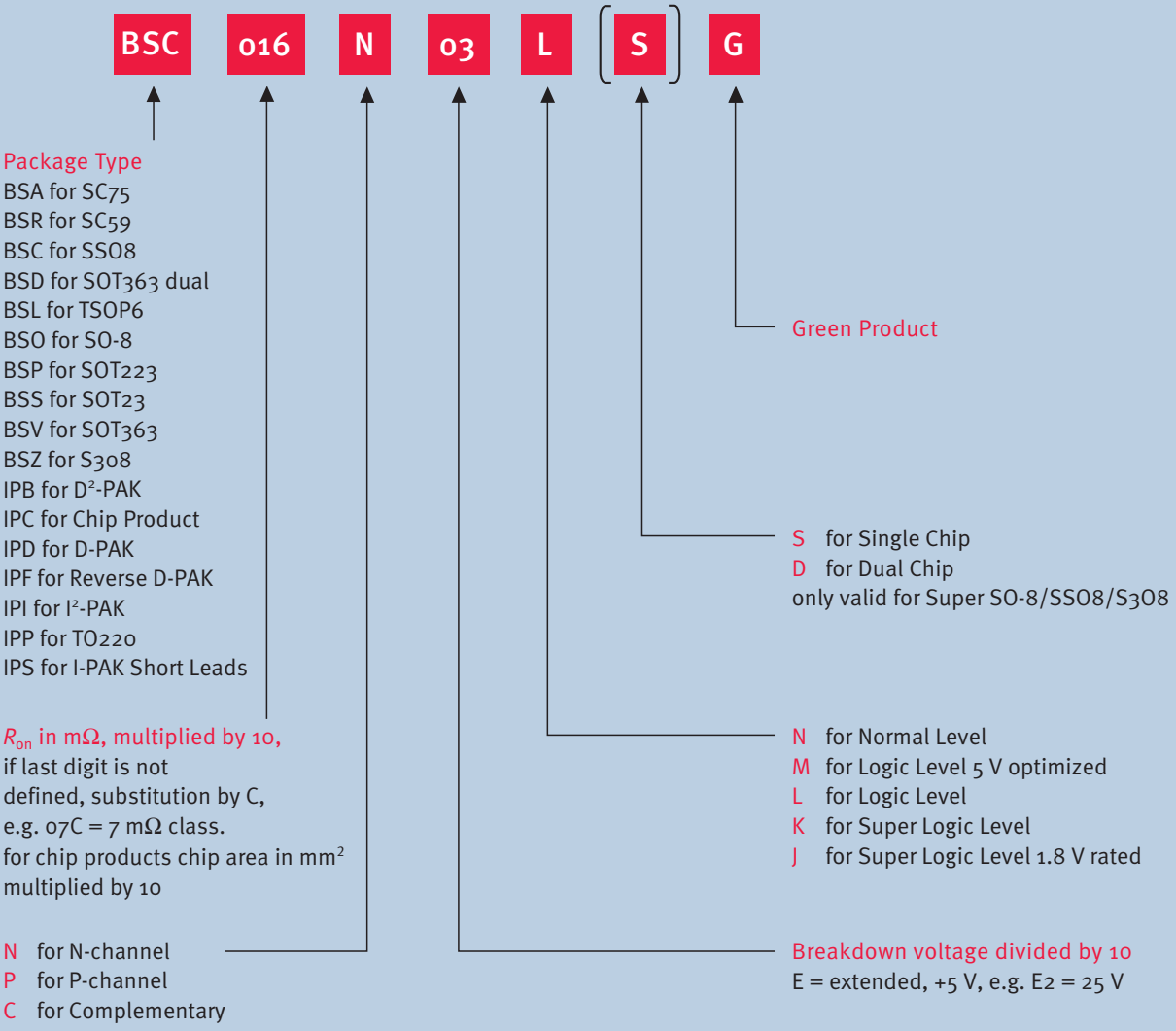


Lighting ICs

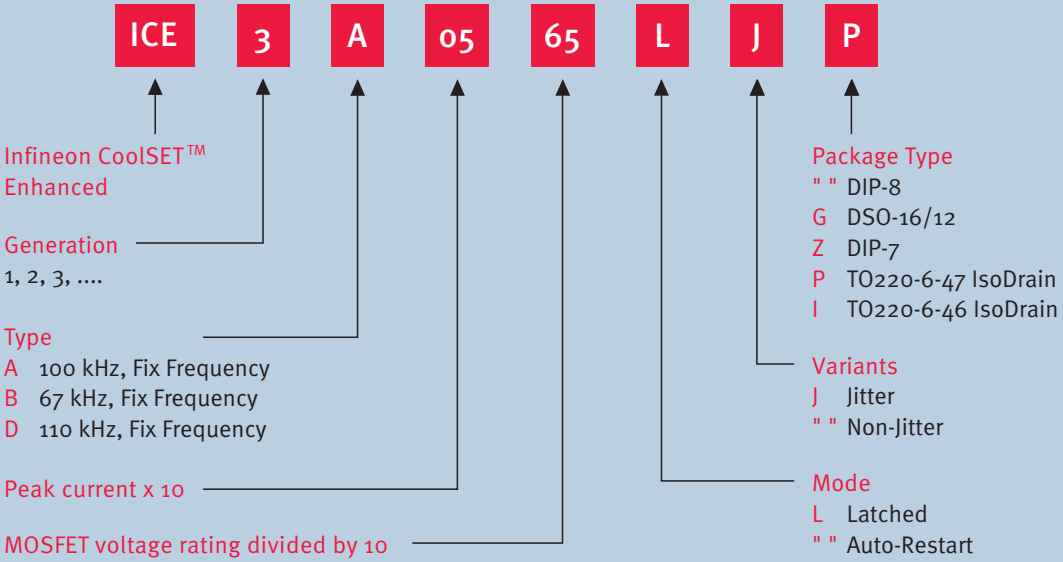


Naming System

OptiMOS®



CoolSET™



MOSFETs

TO247

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
500 V	380.0			2.1 ... 3.9	11.6	49.0	SPW12N50C3	CoolMOS™C3
	280.0			2.1 ... 3.9	16.0	66.0	SPW16N50C3	CoolMOS™C3
	199.0			2.5 ... 3.5	17.0	34.0	IPW50R199CP	CoolMOS™CP
	190.0			2.1 ... 3.9	21.0	95.0	SPW21N50C3	CoolMOS™C3
	140.0			2.5 ... 3.5	23.0	48.0	IPW50R140CP	CoolMOS™CP
	110.0			2.1 ... 3.9	32.0	170.0	SPW32N50C3	CoolMOS™C3
	70.0			2.1 ... 3.9	52.0	290.0	SPW52N50C3	CoolMOS™C3
600 V	380.0			3.5 ... 5.5	11.0	41.5	SPW11N60S5	CoolMOS™S5
	380.0			2.1 ... 3.9	11.0	45.0	SPW11N60C3	CoolMOS™C3
	280.0			2.1 ... 3.9	15.0	63.0	SPW15N60C3	CoolMOS™C3
	199.0			2.5 ... 3.5	16.0	33.0	IPW60R199CP	CoolMOS™CP
	190.0			3.5 ... 5.5	20.0	79.0	SPW20N60S5	CoolMOS™S5
	190.0			2.1 ... 3.9	20.7	87.0	SPW20N60C3	CoolMOS™C3
	165.0			2.5 ... 3.5	21.0	39.0	IPW60R165CP	CoolMOS™CP
	160.0			2.1 ... 3.9	24.3	104.9	SPW24N60C3	CoolMOS™C3
	125.0			2.5 ... 3.5	25.0	53.0	IPW60R125CP	CoolMOS™CP
	110.0			2.1 ... 3.9	34.6	150.0	SPW35N60C3	CoolMOS™C3
	99.0			2.5 ... 3.5	31.0	60.0	IPW60R099CP	CoolMOS™CP
	70.0			2.1 ... 3.9	47.0	252.0	SPW47N60C3	CoolMOS™C3
	45.0			2.5 ... 3.5	60.0	150.0	IPW60R045CP	CoolMOS™CP
	440.0			3.0 ... 5.0	11.0	48.0	SPW11N60CFD	CoolMOS™CFD
	330.0			3.0 ... 5.0	15.0	70.0	SPW15N60CFD	CoolMOS™CFD
	220.0			3.0 ... 5.0	20.0	95.0	SPW20N60CFD	CoolMOS™CFD
	186.0			3.0 ... 5.0	24.3	112.0	SPW24N60CFD	CoolMOS™CFD
	118.0			3.0 ... 5.0	34.0	163.0	SPW35N60CFD	CoolMOS™CFD
	80.0			3.0 ... 5.0	46.0	248.0	SPW47N60CFD	CoolMOS™CFD
800 V	450.0			2.1 ... 3.9	11.0	58.0	SPW11N80C3	CoolMOS™C3
	290.0			2.1 ... 3.9	17.0	91.0	SPW17N60C3	CoolMOS™C3

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

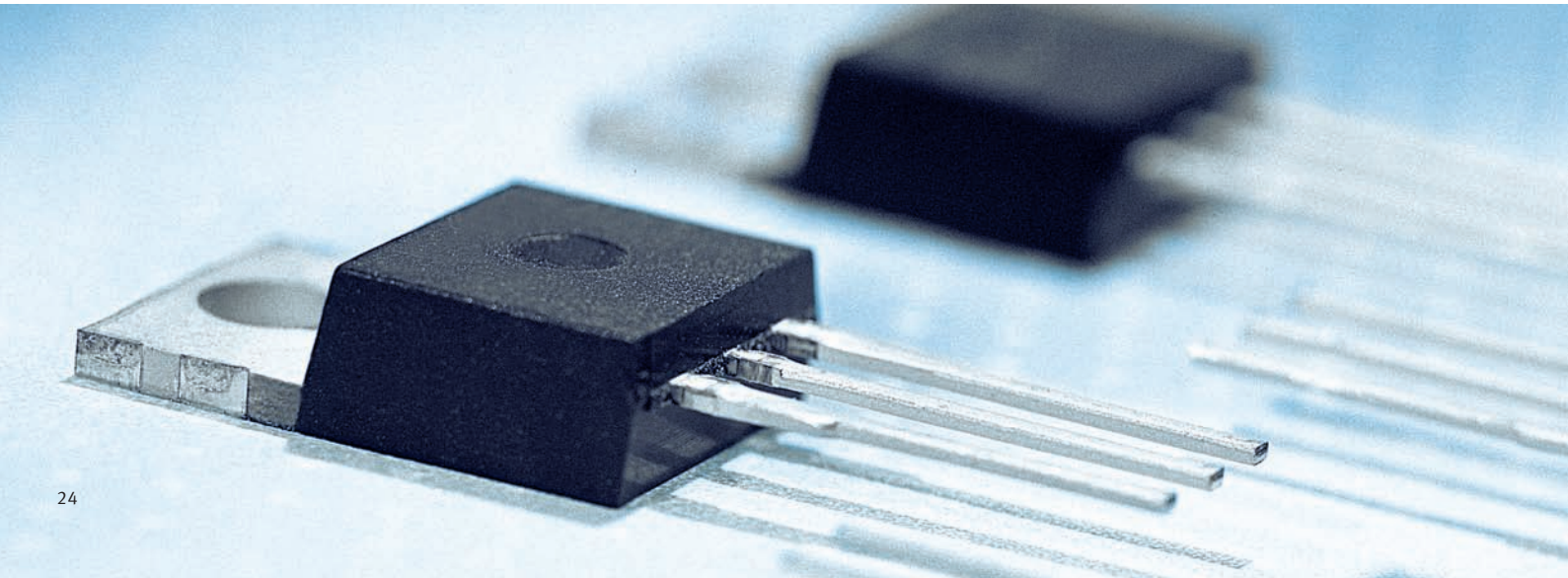
TO220

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-100 V	240.0			-4.0 ... -2.1	-15.0	33.4	SPP15P10P G	Planar
	210.0	290.0		-2.0 ... -1.0	-15.5	47.0	SPP15P10PL G [1]	Planar
-60 V	23.0			-4.0 ... -2.1	-80.0	115.0	SPP80P06P	Planar
	130.0			-4.0 ... -2.1	-18.6	22.0	SPP18P06P	Planar
	300.0			-4.0 ... -2.1	-8.8	10.0	SPP08P06P	Planar
25 V	3.0			1.2 ... 2.0	80.0	43.0	IPP03N03LA	OptiMOS®2
	4.2			1.2 ... 2.0	80.0	24.0	IPP04N03LA	OptiMOS®2
	4.9			1.2 ... 2.0	80.0	19.0	IPP05N03LA	OptiMOS®2
	6.2			1.2 ... 2.0	50.0	16.0	IPP06N03LA	OptiMOS®2
	9.2			1.2 ... 2.0	50.0	10.0	IPP09N03LA	OptiMOS®2
	11.5			1.2 ... 2.0	30.0	8.2	IPP11N03LA	OptiMOS®2
	13.9			1.2 ... 2.0	30.0	7.0	IPP14N03LA	OptiMOS®2
30 V	3.1			1.0 ... 2.0	80.0	44.0	IPP03N03LB G	OptiMOS®2
	3.4	4.7		1.2 ... 2.2	80.0	25.0	IPP034N03L G	OptiMOS®3
	4.2	n.a		1.2 ... 2.0	80.0	20.25 [2]	IPP042N03L G	OptiMOS®3
	3.8			1.2 ... 2.0	80.0	30.0	IPP04N03LB G	OptiMOS®2
	5.5	n.a		1.2 ... 2.0	80.0	16.69 [2]	IPP055N03L G	OptiMOS®3
	5.3			1.2 ... 2.0	80.0	19.0	IPP05N03LB G	OptiMOS®2
	6.5	9.5		1.0 ...2.2	50.0	11.3	IPP065N03L G	OptiMOS®3
	6.6			1.2 ... 2.0	50.0	19.0	IPP07N03LB G	OptiMOS®2
	8.0	n.a		1.2 ... 2.0	40.0	9.69 [2]	IPP080N03L G	OptiMOS®3
	9.6	14.1		1.0 ...2.2	40.0	7.4	IPP096N03L G	OptiMOS®3
	9.9			1.2 ... 2.0	50.0	10.0	IPP10N03LB G	OptiMOS®2
	11.4	n.a		1.2 ... 2.0	n.a.	7.31 [2]	IPP114N03L G	OptiMOS®3
	12.8			1.2 ... 2.0	30.0	8.0	IPP13N03LB G	OptiMOS®2
	14.7	21.7		1.0 ...2.2	30.0	4.8	IPP147N03L G	OptiMOS®3
	15.4			1.2 ... 2.0	30.0	6.0	IPP15N03LB G [1]	OptiMOS®2

1) Can be mass-produced on customer request

2) Preliminary data

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts



TO220

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
60 V	4.8			1.2 ... 2.0	100.0	169.0	IPP48N06L G	OptiMOS®
	5.0			2.0 ... 4.0	100.0	126.0	IPP050N06N G	OptiMOS®
	6.5			1.2 ... 2.0	80.0	113.0	IPP065N06L G [1]	OptiMOS®
	7.0			2.0 ... 4.0	80.0	83.0	IPP070N06N G [1]	OptiMOS®
	7.0			1.2 ... 2.0	80.0	94.0	IPP070N06L G	OptiMOS®
	8.0			2.0 ... 4.0	80.0	70.0	IPP080N06N G	OptiMOS®
	8.5			1.2 ... 2.0	80.0	79.0	IPP085N06L G	OptiMOS®
	9.1			2.0 ... 4.0	80.0	58.0	IPP091N06N G	OptiMOS®
	11.0			1.2 ... 2.0	78.0	59.0	IPP110N06L G	OptiMOS®
	12.0			2.0 ... 4.0	75.0	43.0	IPP120N06N G	OptiMOS®
85 V	4.4			2.0 ... 4.0	100.0	175.0	IPP04CNE8N G	OptiMOS®2
	5.4			2.0 ... 4.0	67.0	49.0	IPP054NE8N G	OptiMOS®2
	6.5			2.0 ... 4.0	53.0	36.0	IPP06CNE8N G	OptiMOS®2
	8.5			2.0 ... 4.0	35.0	23.0	IPP08CNE8N G	OptiMOS®2
	12.4			2.0 ... 4.0	67.0	49.0	IPP12CNE8N G	OptiMOS®2
	16.0			2.0 ... 4.0	53.0	36.0	IPP16CNE8N G	OptiMOS®2
	26.0			2.0 ... 4.0	35.0	23.0	IPP26CNE8N G	OptiMOS®2
100 V	14.0			1.2 ... 2.0	80.0	160.0	SPP/B/I80N10L	Planar
	4.4			2.0 ... 4.0	100.0	175.0	IPP04CN10N G	OptiMOS®2
	5.4			2.0 ... 4.0	100.0	136.0	IPP05CN10N G	OptiMOS®2
	6.5			2.0 ... 4.0	100.0	104.0	IPP06CN10N G	OptiMOS®2
	8.5			2.0 ... 4.0	95.0	75.0	IPP08CN10N G	OptiMOS®2
	12.9			2.0 ... 4.0	67.0	49.0	IPP12CN10N G	OptiMOS®2
	16.5			2.0 ... 4.0	53.0	36.0	IPP16CN10N G	OptiMOS®2
	26.0			2.0 ... 4.0	35.0	23.0	IPP26CN10N G	OptiMOS®2
	35.0			2.0 ... 4.0	27.0	18.0	IPP35CN10N G	OptiMOS®2
	50.0			2.0 ... 4.0	20.0	12.0	IPP50CN10N G	OptiMOS®2
	80.0			2.0 ... 4.0	13.0	8.0	IPP80CN10N G	OptiMOS®2
500 V	950.0			2.1 ... 3.9	4.5	22.0	SPP04N50C3	CoolMOS™C3
	600.0			2.1 ... 3.9	7.6	32.0	SPP08N50C3	CoolMOS™C3
	520.0			2.5 ... 3.5	7.0	13.0	IPP50R520CP	CoolMOS™CP
	399.0			2.5 ... 3.5	9.0	17.0	IPP50R399CP	CoolMOS™CP
	380.0			2.1 ... 3.9	11.6	49.0	SPP12N50C3	CoolMOS™C3
	350.0			2.5 ... 3.5	10.0	19.0	IPP50R350CP	CoolMOS™CP
	299.0			2.5 ... 3.5	12.0	23.0	IPP50R299CP	CoolMOS™CP
	280.0			2.1 ... 3.9	16.0	66.0	SPP16N50C3	CoolMOS™C3
	250.0			2.5 ... 3.5	13.0	27.0	IPP50R250CP	CoolMOS™CP
	199.0			2.5 ... 3.5	17.0	34.0	IPP50R199CP	CoolMOS™CP
	190.0			2.1 ... 3.9	21.0	95.0	SPP21N50C3	CoolMOS™C3
	140.0			2.5 ... 3.5	23.0	48.0	IPP50R140CP	CoolMOS™CP

1) Can be mass-produced on customer request

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

TO220

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
600 V	3000.0			2.1 ... 3.9	1.8	9.5	SPP02N60C3	CoolMOS™C3
	3000.0			3.5 ... 5.5	1.8	7.3	SPP02N60S5	CoolMOS™S5
	1400.0			2.1 ... 3.9	3.2	13.0	SPP03N60C3	CoolMOS™C3
	1400.0			3.5 ... 5.5	3.2	12.4	SPP03N60S5	CoolMOS™S5
	950.0			2.1 ... 3.9	4.5	19.0	SPP04N60C3	CoolMOS™C3
	950.0			3.5 ... 5.5	4.5	17.6	SPP04N60S5	CoolMOS™S5
	750.0			2.1 ... 3.9	6.2	24.0	SPP06N60C3	CoolMOS™C3
	600.0			2.1 ... 3.9	7.3	21.0	SPP07N60C3	CoolMOS™C3
	600.0			3.5 ... 5.5	7.3	27.0	SPP07N60S5	CoolMOS™S5
	385.0			2.5 ... 3.5	9.0	17.0	IPP60R385CP	CoolMOS™CP
	380.0			3.5 ... 5.5	11.0	41.5	SPP11N60S5	CoolMOS™S5
	299.0			2.5 ... 3.5	11.0	22.0	IPP60R299CP	CoolMOS™CP
	280.0			2.1 ... 3.9	15.0	63.0	SPP15N60C3	CoolMOS™C3
	280.0			2.1 ... 3.9	11.0	45.0	SPP11N60C3	CoolMOS™C3
	199.0			2.5 ... 3.5	16.0	33.0	IPP60R199CP	CoolMOS™CP
	190.0			2.1 ... 3.9	20.7	87.0	SPP20N60C3	CoolMOS™C3
	190.0			3.5 ... 5.5	20.7	79.0	SPP20N60S5	CoolMOS™S5
	165.0			2.5 ... 3.5	21.0	39.0	IPP60R165CP	CoolMOS™CP
	160.0			2.1 ... 3.9	24.3	104.9	SPP24N60C3	CoolMOS™C3
	125.0			2.5 ... 3.5	25.0	53.0	IPP60R125CP	CoolMOS™CP
	99.0			2.5 ... 3.5	31.0	60.0	IPP60R099CP	CoolMOS™CP
	720.0			3.0 ... 5.0	7.2	33.0	SPP07N60CFD	CoolMOS™CFD
	440.0			3.0 ... 5.0	11.0	48.0	SPP11N60CFD	CoolMOS™CFD
	330.0			3.0 ... 5.0	15.0	70.0	SPP15N60CFD	CoolMOS™CFD
	220.0			3.0 ... 5.0	20.0	95.0	SPP20N60CFD	CoolMOS™CFD
650 V	600.0			2.1 ... 3.9	7.3	21.0	SPP07N65C3	CoolMOS™C3
	380.0			2.1 ... 3.9	11.0	45.0	SPP11N65C3	CoolMOS™C3
	190.0			2.1 ... 3.9	20.7	87.0	SPP20N65C3	CoolMOS™C3
800 V	2700.0			2.1 ... 3.9	2.0	9.0	SPP02N80C3	CoolMOS™C3
	1300.0			2.1 ... 3.9	4.0	20.0	SPP04N80C3	CoolMOS™C3
	900.0			2.1 ... 3.9	6.0	27.0	SPP06N80C3	CoolMOS™C3
	650.0			2.1 ... 3.9	8.0	40.0	SPP08N80C3	CoolMOS™C3
	450.0			2.1 ... 3.9	11.0	50.0	SPP11N80C3	CoolMOS™C3
	290.0			2.1 ... 3.9	17.0	91.0	SPP17N80C3	CoolMOS™C3

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TO220 FullPAK

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
500 V	950.0			2.1 ... 3.9	4.5	22.0	SPA04N50C3	CoolMOS™C3
	600.0			2.1 ... 3.9	7.6	32.0	SPA08N50C3	CoolMOS™C3
	520.0			2.5 ... 3.5	7.0	13.0	IPA50R520CP	CoolMOS™CP
	280.0			2.1 ... 3.9	16.0	66.0	SPA16N50C3	CoolMOS™C3
	399.0			2.5 ... 3.5	9.0	17.0	IPA50R399CP	CoolMOS™CP
	380.0			2.1 ... 3.9	11.6	49.0	SPA12N50C3	CoolMOS™C3
	350.0			2.5 ... 3.5	10.0	19.0	IPA50R350CP	CoolMOS™CP
	299.0			2.5 ... 3.5	12.0	23.0	IPA50R299CP	CoolMOS™CP
	250.0			2.5 ... 3.5	13.0	27.0	IPA50R250CP	CoolMOS™CP
	199.0			2.5 ... 3.5	17.0	34.0	IPA50R199CP	CoolMOS™CP
	190.0			2.1 ... 3.9	21.0	95.0	SPA21N50C3	CoolMOS™C3
	140.0			2.5 ... 3.5	23.0	48.0	IPA50R140CP	CoolMOS™CP
600 V	1400.0			2.1 ... 3.9	3.2	13.0	SPA03N60C3	CoolMOS™C3
	950.0			2.1 ... 3.9	4.5	19.0	SPA04N60C3	CoolMOS™C3
	750.0			2.1 ... 3.9	6.2	24.0	SPA06N60C3	CoolMOS™C3
	600.0			2.1 ... 3.9	7.3	21.0	SPA07N60C3	CoolMOS™C3
	385.0			2.5 ... 3.5	9.0	17.0	IPA60R385CP	CoolMOS™CP
	380.0			2.1 ... 3.9	11.0	45.0	SPA11N60C3	CoolMOS™C3
	280.0			2.1 ... 3.9	15.0	63.0	SPA15N60C3	CoolMOS™C3
	299.0			2.5 ... 3.5	11.0	22.0	IPA60R299CP	CoolMOS™CP
	199.0			2.5 ... 3.5	16.0	33.0	IPA60R199CP	CoolMOS™CP
	190.0			2.1 ... 3.9	20.7	87.0	SPA20N60C3	CoolMOS™C3
	165.0			2.5 ... 3.5	21.0	39.0	IPA60R165CP	CoolMOS™CP
	125.0			2.5 ... 3.5	25.0	53.0	IPA60R125CP	CoolMOS™CP
	620.0			3.0 ... 5.0	7.2	33.0	SPA07N60CFD	CoolMOS™CFD
	440.0			3.0 ... 5.0	11.0	48.0	SPA11N60CFD	CoolMOS™CFD
	330.0			3.0 ... 5.0	15.0	70.0	SPA15N60CFD	CoolMOS™CFD
	220.0			3.0 ... 5.0	20.0	95.0	SPA20N60CFD	CoolMOS™CFD
650 V	600.0			2.1 ... 3.9	7.3	21.0	SPA07N65C3	CoolMOS™C3
	380.0			2.1 ... 3.9	11.0	45.0	SPA11N65C3	CoolMOS™C3
	190.0			2.1 ... 3.9	20.7	87.0	SPA20N65C3	CoolMOS™C3
800 V	2700.0			2.1 ... 3.9	2.0	9.0	SPA02N80C3	CoolMOS™C3
	1300.0			2.1 ... 3.9	4.0	20.0	SPA04N80C3	CoolMOS™C3
	900.0			2.1 ... 3.9	6.0	27.0	SPA06N80C3	CoolMOS™C3
	650.0			2.1 ... 3.9	8.0	40.0	SPA08N80C3	CoolMOS™C3
	450.0			2.1 ... 3.9	11.0	50.0	SPA11N80C3	CoolMOS™C3
	290.0			2.1 ... 3.9	17.0	91.0	SPA17N80C3	CoolMOS™C3

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

D²-PAK (TO263)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-60 V	23.0			-4.0 ... -2.1	-80.0	115.0	SPB80P06P	Planar
	130.0			-4.0 ... -2.1	-18.6	22.0	SPB18P06P	Planar
	300.0			-4.0 ... -2.1	-8.8	10.0	SPB08P06P	Planar
25 V	2.7			1.2 ... 2.0	80.0	43.0	IPB03N03LA G	OptiMOS®2
	3.9			1.2 ... 2.0	80.0	24.0	IPB04N03LA G	OptiMOS®2
	4.6			1.2 ... 2.0	80.0	19.0	IPB05N03LA G	OptiMOS®2
	5.9			1.2 ... 2.0	50.0	16.0	IPB06N03LA G	OptiMOS®2
	6.2			1.2 ... 2.0	50.0	14.0	IPBH6N03LA G	OptiMOS®2
	8.9			1.2 ... 2.0	50.0	10.0	IPB09N03LA G	OptiMOS®2
	11.2			1.2 ... 2.0	30.0	8.2	IPB11N03LA G	OptiMOS®2
	13.6			1.2 ... 2.0	30.0	7.0	IPB14N03LA G	OptiMOS®2
30 V	2.4	n.a.		n.a.	n.a.	n.a.	IPB024N03L G	OptiMOS®3
	2.8			1.2 ... 2.0	80.0	44.0	IPB03N03LB G	OptiMOS®2
	3.4	4.7		1.0 ... 2.2	90.0	25.0	IPB034N03L G	OptiMOS®3
	3.8			1.2 ... 2.0	80.0	30.0	IPB04N03LB G	OptiMOS®2
	4.2	n.a.		1.0 ... 2.2	80.0	20.25 [2]	IPB042N03L G	OptiMOS®3
	5.5	5.5		1.2 ... 2.0	80.0	16.69 [2]	IPB055N03L G	OptiMOS®3
	5.0			1.2 ... 2.0	80.0	19.0	IPB05N03LB G	OptiMOS®2
	6.5	6.5		1.0 ... 2.2	50.0	11.3	IPB065N03L G	OptiMOS®3
	6.3			1.2 ... 2.0	50.0	16.0	IPB06N03LB G	OptiMOS®2
	8.0	n.a.		1.2 ... 2.0	40.0	9.69 [2]	IPB080N03L G	OptiMOS®3
	9.6	14.1		1.0 ... 2.2	40.0	7.4	IPB096N03L G	OptiMOS®3
	9.6			1.2 ... 2.0	50.0	10.0	IPB10N03LB G	OptiMOS®2
	11.4	n.a.		1.2 ... 2.0	30.0	7.31 [2]	IPB114N03LB G	OptiMOS®3
	12.5			1.2 ... 2.0	30.0	8.0	IPB13N03LB G	OptiMOS®2
	14.7	21.7		1.0 ... 2.2	30.0	4.8	IPB147N03L G	OptiMOS®3
60 V	4.5			1.2 ... 2.0	100.0	169.0	IPB048N06L G	OptiMOS®
	4.7			2.0 ... 4.0	100.0	126.0	IPB050N06N G	OptiMOS®
	6.3			1.2 ... 2.0	80.0	113.0	IPB065N06L G [1]	OptiMOS®
	6.7			2.0 ... 4.0	80.0	83.0	IPB070N06N G [1]	OptiMOS®
	6.7			1.2 ... 2.0	80.0	94.0	IPB070N06L G	OptiMOS®
	7.7			2.0 ... 4.0	80.0	70.0	IPB080N06N G	OptiMOS®
	8.2			1.2 ... 2.0	80.0	79.0	IPB085N06L G	OptiMOS®
	8.8			2.0 ... 4.0	80.0	58.0	IPB091N06N G	OptiMOS®
	10.7			1.2 ... 2.0	78.0	59.0	IPB110N06L G	OptiMOS®
	11.7			2.0 ... 4.0	75.0	43.0	IPB120N06N G	OptiMOS®
85 V	4.1			2.0 ... 4.0	100.0	175.0	IPB04CNE8N G	OptiMOS®2
	5.1			2.0 ... 4.0	100.0	136.0	IPB051NE8N G	OptiMOS®2
	6.2			2.0 ... 4.0	100.0	104.0	IPB06CNE8N G	OptiMOS®2
	8.2			2.0 ... 4.0	95.0	75.0	IPB08CNE8N G	OptiMOS®2
	12.6			2.0 ... 4.0	67.0	49.0	IPB12CNE8N G	OptiMOS®2
	16.2			2.0 ... 4.0	53.0	36.0	IPB16CNE8N G	OptiMOS®2
	26.0			2.0 ... 4.0	35.0	23.0	IPB26CNE8N G	OptiMOS®2

1) Can be mass-produced on customer request

2) Preliminary data

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

D²-PAK (TO263)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
100 V	4.1			2.0 ... 4.0	100.0	175.0	IPB04CN10N G	OptiMOS®2
	5.1			2.0 ... 4.0	100.0	136.0	IPB05CN10N G	OptiMOS®2
	6.2			2.0 ... 4.0	100.0	104.0	IPB06CN10N G	OptiMOS®2
	8.2			2.0 ... 4.0	95.0	75.0	IPB08CN10N G	OptiMOS®2
	12.6			2.0 ... 4.0	67.0	49.0	IPB12CN10N G	OptiMOS®2
	16.2			2.0 ... 4.0	53.0	36.0	IPB16CN10N G	OptiMOS®2
	26.0			2.0 ... 4.0	35.0	23.0	IPB26CN10N G	OptiMOS®2
	35.0			2.0 ... 4.0	27.0	8.0	IPB35CN10N G	OptiMOS®2
	50.0			2.0 ... 4.0	20.0	12.0	IPB50CN10N G	OptiMOS®2
	80.0			2.0 ... 4.0	13.0	8.0	IPB80CN10N G	OptiMOS®2
	26.0			1.2 ... 2.0	47.0	90.0	SPP/B/I47N10L	Planar
	33.0			2.0 ... 4.0	47.0	70.0	SPP/B/I47N10	Planar
	44.0			2.0 ... 4.0	35.0	49.0	SPP/B/I35N10	Planar
	80.0			2.0 ... 4.0	21.0	28.9	SPP/B/I21N10	Planar
	154.0			1.2 ... 2.0	10.3	17.7	SPP/B/I10N10L	Planar
	170.0			2.0 ... 4.0	10.3	14.6	SPP/B/I10N10	Planar
200 V	130.0			2.0 ... 4.0	21.0	64.0	BUZ30A	Planar
	200.0			2.0 ... 4.0	14.5	50.0	BUZ31	Planar
	400.0			2.0 ... 4.0	9.5	24.0	BUZ32	Planar
500 V	950.0			2.1 ... 3.9	4.5	22.0	SPB04N50C3	CoolMOS™C3
	380.0			2.1 ... 3.9	11.6	49.0	SPB12N50C3	CoolMOS™C3
	299.0			2.5 ... 3.5	12.0	23.0	IPB50R299CP	CoolMOS™CP
	280.0			2.1 ... 3.9	16.0	66.0	SPB16N50C3	CoolMOS™C3
	250.0			2.5 ... 3.5	13.0	27.0	IPB50R250CP	CoolMOS™CP
	199.0			2.5 ... 3.5	17.0	34.0	IPB50R199CP	CoolMOS™CP
	190.0			2.1 ... 3.9	21.0	95.0	SPB21N50C3	CoolMOS™C3
	140.0			2.5 ... 3.5	23.0	48.0	IPB50R140CP	CoolMOS™CP
600 V	3000.0			3.5 ... 5.5	1.8	7.3	SPB02N60S5	CoolMOS™S5
	3000.0			2.1 ... 3.9	1.8	9.5	SPB02N60C3	CoolMOS™C3
	1400.0			3.5 ... 5.5	3.2	12.4	SPB03N60S5	CoolMOS™S5
	1400.0			2.1 ... 3.9	3.2	13.0	SPB03N60C3	CoolMOS™C3
	950.0			3.5 ... 5.5	4.5	17.6	SPB04N60S5	CoolMOS™S5
	950.0			2.1 ... 3.9	4.5	19.0	SPB04N60C3	CoolMOS™C3
	600.0			3.5 ... 5.5	7.3	27.0	SPB07N60S5	CoolMOS™S5
	600.0			2.1 ... 3.9	7.3	21.0	SPB07N60C3	CoolMOS™C3
	380.0			3.5 ... 5.5	11.0	41.5	SPB11N60S5	CoolMOS™S5
	380.0			2.1 ... 3.9	11.0	45.0	SPB11N60C3	CoolMOS™C3
	190.0			3.5 ... 5.5	20.7	79.0	SPB20N60S5	CoolMOS™S5
	190.0			2.1 ... 3.9	20.7	87.0	SPB20N60C3	CoolMOS™C3
	165.0			2.5 ... 3.5	21.0	39.0	IPB60R165CP	CoolMOS™CP
	99.0			2.5 ... 3.5	31.0	60.0	IPB60R099CP	CoolMOS™CP
800 V	290.0			2.1 ... 3.9	17.0	91.0	SPB17N80C3	CoolMOS™C3

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

I² PAK (TO262)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
25 V	3.0			1.2 ... 2.0	80.0	43.0	IPI03N03LA	OptiMOS®2
	4.2			1.2 ... 2.0	80.0	24.0	IPI04N03LA	OptiMOS®2
	4.9			1.2 ... 2.0	80.0	19.0	IPI05N03LA	OptiMOS®2
	6.2			1.2 ... 2.0	50.0	16.0	IPI06N03LA	OptiMOS®2
	9.2			1.2 ... 2.0	50.0	10.0	IPI09N03LA	OptiMOS®2
	11.5			1.2 ... 2.0	30.0	8.2	IPI11N03LA	OptiMOS®2
	13.9			1.2 ... 2.0	30.0	7.0	IPI14N03LA	OptiMOS®2
30 V	3.1			1.2 ... 2.0	80.0	44.0	IPI03N03LB G[1]	OptiMOS®2
	3.8			1.2 ... 2.0	80.0	30.0	IPI04N03LB G[1]	OptiMOS®2
	5.3			1.2 ... 2.0	80.0	19.0	IPI05N03LB G[1]	OptiMOS®2
	6.6			1.2 ... 2.0	50.0	19.0	IPI07N03LB G[1]	OptiMOS®2
	9.9			1.2 ... 2.0	50.0	10.0	IPI10N03LB G[1]	OptiMOS®2
	12.8			1.2 ... 2.0	30.0	8.0	IPI13N03LB G[1]	OptiMOS®2
	15.4			1.2 ... 2.0	30.0	6.0	IPI15N03LB G[2]	OptiMOS®2
60 V	7.0			2.0 ... 4.0	80.0	83.0	IPI070N06N G[1]	OptiMOS®
85 V	4.4			2.0 ... 4.0	100.0	175.0	IPI04CNE8N G	OptiMOS®
	5.4			2.0 ... 4.0	67.0	49.0	IPI054NE8N G	OptiMOS®
	6.5			2.0 ... 4.0	100.0	104.0	IPI06CNE8N G	OptiMOS®
	8.5			2.0 ... 4.0	95.0	75.0	IPI08CNE8N G	OptiMOS®
	12.9			2.0 ... 4.0	67.0	49.0	IPI12CNE8N G	OptiMOS®
	16.5			2.0 ... 4.0	53.0	36.0	IPI16CNE8N G	OptiMOS®
	26.0			2.0 ... 4.0	35.0	23.0	IPI26CNE8N G	OptiMOS®
100 V	4.4			2.0 ... 4.0	100.0	175.0	IPI04CN10N G	OptiMOS®2
	5.4			2.0 ... 4.0	100.0	136.0	IPI05CN10N G	OptiMOS®2
	6.5			2.0 ... 4.0	100.0	104.0	IPI06CN10N G	OptiMOS®2
	8.5			2.0 ... 4.0	95.0	75.0	IPI08CN10N G	OptiMOS®2
	12.9			2.0 ... 4.0	67.0	49.0	IPI12CN10N G	OptiMOS®2
	16.5			2.0 ... 4.0	53.0	36.0	IPI16CN10N G	OptiMOS®2
	26.0			2.0 ... 4.0	35.0	23.0	IPI26CN10N G	OptiMOS®2
	35.0			2.0 ... 4.0	27.0	18.0	IPI35CN10N G	OptiMOS®2
	50.0			2.0 ... 4.0	20.0	12.0	IPI50CN10N G	OptiMOS®2
	80.0			2.0 ... 4.0	13.0	8.0	IPI80CN10N G	OptiMOS®2

1) Can be mass-produced on customer request

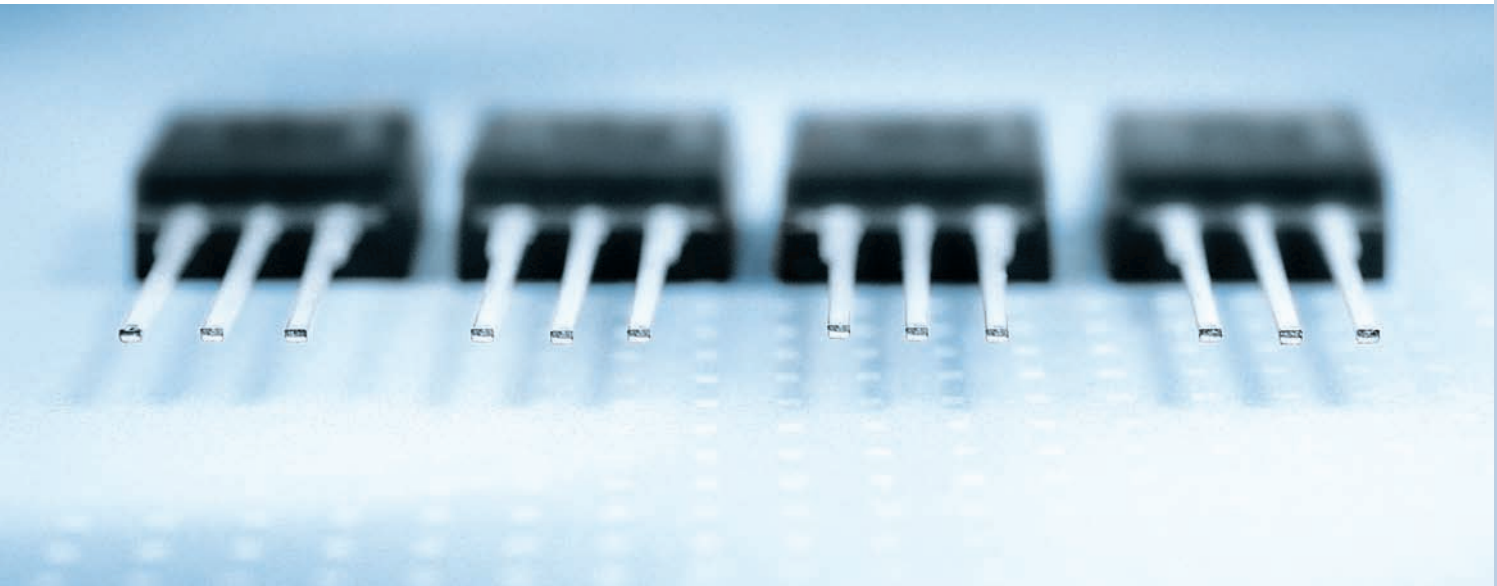
2) 5-Leg

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

I² PAK (TO262)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
200 V	200.0			2.1 ... 4.0	14.5	50.0	BUZ31	Planar
	400.0			2.1 ... 4.0	7.0	24.0	BUZ73	Planar
	600.0			2.1 ... 4.0	5.5	24.0	BUZ73A	Planar
500 V	600.0			2.1 ... 3.9	7.6	32.0	SPI08N50C3	CoolMOS™C3
	399.0			2.5 ... 3.5	9.0	17.0	IPI50R399CP	CoolMOS™CP
	380.0			2.1 ... 3.9	11.6	49.0	SPI12N50C3	CoolMOS™C3
	350.0			2.5 ... 3.5	10.0	19.0	IPI50R350CP	CoolMOS™CP
	280.0			2.1 ... 3.9	16.0	66.0	SPI16N50C3	CoolMOS™C3
	190.0			2.1 ... 3.9	21.0	95.0	SPI21N50C3	CoolMOS™C3
600 V	600.0			3.5 ... 5.5	7.3	27.0	SPI07N60S5	CoolMOS™S5
	600.0			2.1 ... 3.9	7.3	21.0	SPI07N60C3	CoolMOS™C3
	385.0			2.5 ... 3.5	9.0	17.0	IPI60R385CP	CoolMOS™CP
	380.0			3.5 ... 5.5	11.0	41.5	SPI11N60S5	CoolMOS™S5
	380.0			2.1 ... 3.9	11.0	45.0	SPI11N60C3	CoolMOS™C3
	299.0			2.5 ... 3.5	11.0	22.0	IPI60R299CP	CoolMOS™CP
	280.0			2.1 ... 3.9	15.0	63.0	SPI15N60C3	CoolMOS™C3
	199.0			2.5 ... 3.5	16.0	33.0	IPI60R199CP	CoolMOS™CP
	190.0			2.1 ... 3.9	20.7	87.0	SPI20N60C3	CoolMOS™C3
650 V	600.0			2.1 ... 3.9	7.3	21.0	SPI07N65C3	CoolMOS™C3
	380.0			2.1 ... 3.9	11.0	45.0	SPI11N65C3	CoolMOS™C3
	190.0			2.1 ... 3.9	20.7	87.0	SPI20N65C3	CoolMOS™C3
800 V	650.0			2.1 ... 3.9	8.0	40.0	SPI08N80C3	CoolMOS™C3

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts



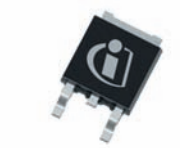
D-PAK (TO252)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-100 V	240.0			-4.0 ... -2.1	-15.0	33.4	SPD15P10P G	Planar
	210.0	290.0		-2.0 ... -1.0	-15.5	47.0	SPD15P10PL G	Planar
	1000.0			-4.0 ... -2.1	-4.0	9.1	SPD04P10P G	Planar
	850.0	1050.0		-2.0 ... -1.0	-4.2	12.0	SPD04P10PL G	Planar
-60 V	75.0			-4.0 ... -2.1	-30.0	32.0	SPD30P06P	Planar
	130.0			-4.0 ... -2.1	-18.6	22.0	SPD18P06P	Planar
	250.0	400.0		-2.0 ... -1.0	-9.7	14.0	SPD09P06P	Planar
	300.0			-4.0 ... -2.1	-8.8	10.0	SPD08P06P	Planar
-30 V	7.0	13.0		-2.0 ... -1.0	-50.0	-119.0	SPD50P03L G [2]	OptiMOS®2
25 V	3.2			1.2 ... 2.0	90.0	31.0	IPD03N03LA G	OptiMOS®2
	4.2			1.2 ... 2.0	90.0	19.0	IPDH4N03LA G	OptiMOS®2
	3.8			1.2 ... 2.0	50.0	31.0	IPD04N03LA G	OptiMOS®2
	5.2			1.2 ... 2.0	50.0	17.0	IPDH5N03LA G	OptiMOS®2
	5.1			1.2 ... 2.0	50.0	19.0	IPD05N03LA G	OptiMOS®2
	5.7			1.2 ... 2.0	50.0	17.0	IPD06N03LA G	OptiMOS®2
	6.0			1.2 ... 2.0	50.0	14.0	IPDH6N03LA G	OptiMOS®2
	8.6			1.2 ... 2.0	50.0	10.0	IPD09N03LA G	OptiMOS®2
	9.2			1.2 ... 2.0	30.0	8.2	IPDH9N03LA G	OptiMOS®2
	10.4			1.2 ... 2.0	30.0	8.2	IPD10N03LA G	OptiMOS®2
	12.8			1.2 ... 2.0	30.0	6.3	IPD13N03LA G	OptiMOS®2
30 V	2.3	n.a.		n.a.	n.a.	n.a.	IPD023N03L G [4]	OptiMOS®3
	3.1	4.4		1.0 ... 2.2	90.0	25.0	IPD031N03L G	OptiMOS®3
	3.3			1.2 ... 2.0	90.0	30.0	IPD03N03LB G	OptiMOS®2
	4.0	n.a.		1.2 ... 2.0	50.0	20.25 [3]	IPD040N03L G	OptiMOS®3
	4.1			1.2 ... 2.0	50.0	16.69 [3]	IPD04N03LB G	OptiMOS®2
	5.0	n.a.		1.2 ... 2.0	50.0	11.3 [3]	IPD050N03L G	OptiMOS®3
	4.8			1.2 ... 2.0	90.0	19.0	IPD05N03LB G	OptiMOS®2
	6.0	9.0		1.0 ... 2.2	50.0	11.3	IPD060N03L G	OptiMOS®3
	6.1			1.2 ... 2.0	50.0	16.0	IPD06N03LB G	OptiMOS®2
	7.5	n.a.		1.2 ... 2.0	n.a.	9.7 [3]	IPD075N03L G	OptiMOS®3
	9.0	13.5		1.0 ... 2.2	40.0	7.4	IPD090N03L G	OptiMOS®3
	9.1			1.2 ... 2.0	50.0	10.0	IPD09N03LB G	OptiMOS®2
	10.5	n.a.		1.0 ... 2.2	30.0	7.32 [3]	IPD105N03L G	OptiMOS®3
	11.6			1.2 ... 2.0	30.0	8.0	IPD12N03LB G	OptiMOS®2
	13.5	20.5		1.0 ... 2.2	30.0	4.8	IPD135N03L G	OptiMOS®3
	14.3			1.2 ... 2.0	30.0	6.0	IPD14N03LB G [1]	OptiMOS®2

1) Can be mass-produced on customer request
2) 5-Leg
3) Preliminary data
4) Coming 2007

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

D-PAK (TO252)



Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
60 V	12.7			1.2 ... 2.0	50.0	52.0	IPD127N06L G	OptiMOS®
	14.4			2.0 ... 4.0	50.0	38.0	IPD144N06N G	OptiMOS®
	23.0			1.2 ... 2.0	30.0	31.0	IPD230N06L G	OptiMOS®
	23.0			2.0 ... 4.0	30.0	23.0	IPD230N06N G	OptiMOS®
	35.0			1.2 ... 2.0	29.0	20.0	IPD350N06L G [1)]	OptiMOS®
	40.0			2.0 ... 4.0	27.0	13.0	IPD400N06N G	OptiMOS®
	64.0			1.2 ... 2.0	18.0	10.0	IPD640N06L G	OptiMOS®
	80.0			2.0 ... 4.0	16.0	7.0	IPD800N06N G	OptiMOS®
85 V	12.4			2.0 ... 4.0	67.0	49.0	IPD12CNE8N G	OptiMOS®2
	16.0			2.0 ... 4.0	53.0	36.0	IPD16CNE8N G	OptiMOS®2
	26.0			2.0 ... 4.0	35.0	23.0	IPD25CNE8N G	OptiMOS®2
100 V	12.4			2.0 ... 4.0	67.0	49.0	IPD12CN10N G	OptiMOS®2
	16.0			2.0 ... 4.0	53.0	36.0	IPD16CN10N G	OptiMOS®2
	26.0			2.0 ... 4.0	35.0	23.0	IPD25CN10N G	OptiMOS®2
	33.0			2.0 ... 4.0	27.0	18.0	IPD33CN10N G	OptiMOS®2
	49.0			2.0 ... 4.0	20.0	12.0	IPD49CN10N G	OptiMOS®2
	64.0			2.0 ... 4.0	17.0	6.0	IPD64CN10N G	OptiMOS®2
	78.0			2.0 ... 4.0	13.0	8.0	IPD78CN10N G	OptiMOS®2
	44.0			2.0 ... 4.0	35.0	49.0	SPD35N10	Planar
200 V	400.0			2.0 ... 4.0	7.0	21.0	SPD07N20	Planar
500 V	3000.0			2.1 ... 3.9	1.8	9.0	SPD02N50C3	CoolMOS™C3
	1400.0			2.1 ... 3.9	3.2	15.0	SPD03N50C3	CoolMOS™C3
	950.0			2.1 ... 3.9	4.5	22.0	SPD04N50C3	CoolMOS™C3
	600.0			2.1 ... 3.9	7.6	32.0	SPD08N50C3	CoolMOS™C3
	520.0			2.5 ... 3.5	7.0	13.0	IPD50R520CP	CoolMOS™CP
	399.0			2.5 ... 3.5	9.0	17.0	IPD50R399CP	CoolMOS™CP
600 V	6000.0			2.1 ... 3.9	0.8	3.9	SPD01N60C3	CoolMOS™C3
	3000.0			3.5 ... 5.5	1.8	7.3	SPD02N60S5	CoolMOS™S5
	3000.0			2.1 ... 3.9	1.8	9.5	SPD02N60C3	CoolMOS™C3
	1400.0			3.5 ... 5.5	3.2	12.4	SPD03N60S5	CoolMOS™S5
	1400.0			2.1 ... 3.9	3.2	13.0	SPD03N60C3	CoolMOS™C3
	950.0			3.5 ... 5.5	4.5	17.6	SPD04N60S5	CoolMOS™S5
	950.0			2.1 ... 3.9	4.5	19.0	SPD04N60C3	CoolMOS™C3
	750.0			2.1 ... 3.9	6.2	24.0	SPD06N60C3	CoolMOS™C3
	600.0			2.1 ... 3.9	7.3	21.0	SPD07N60C3	CoolMOS™C3
	600.0			3.5 ... 5.5	7.3	27.0	SPD07N60S5	CoolMOS™S5
	385.0			2.5 ... 3.5	9.0	17.0	IPD60R385CP	CoolMOS™CP
800 V	2700.0			2.1 ... 3.9	2.0	9.0	SPD02N80C3	CoolMOS™C3
	1300.0			2.1 ... 3.9	4.0	20.0	SPD04N80C3	CoolMOS™C3
	900.0			2.1 ... 3.9	6.0	27.0	SPD06N80C3	CoolMOS™C3

1) Can be mass-produced on customer request

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

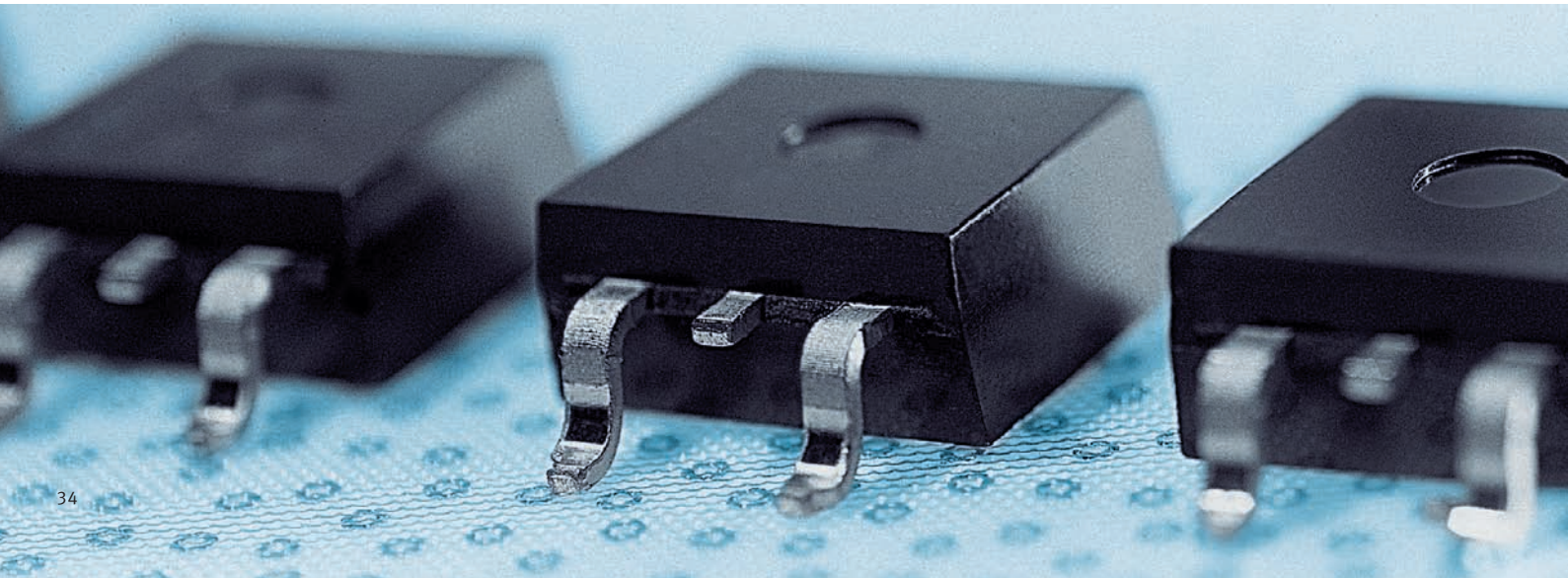
Reverse D-PAK (TO252)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
25 V	4.0			1.2 ... 2.0	50.0	31.0	IPF04N03LA G	OptiMOS®2
	5.3			1.2 ... 2.0	50.0	19.0	IPF05N03LA G	OptiMOS®2
	5.9			1.2 ... 2.0	50.0	17.0	IPF06N03LA G	OptiMOS®2
	6.2			1.2 ... 2.0	50.0	14.0	IPFH6N03LA G	OptiMOS®2
	8.8			1.2 ... 2.0	50.0	10.0	IPF09N03LA G	OptiMOS®2
	10.4			1.2 ... 2.0	30.0	8.2	IPF10N03LA G	OptiMOS®2
	12.8			1.2 ... 2.0	30.0	6.3	IPF13N03LA G	OptiMOS®2
30 V	3.9	5.2		1.0 ... 2.2	50.0	25.0	IPF039N03L G	OptiMOS®3
	4.3			1.2 ... 2.0	50.0	30.0	IPF04N03LB G[1]	OptiMOS®2
	5.0	n.a.		1.0 ... 1.2	50.0	16.69[2]	IPF050N03L G	OptiMOS®3
	6.0	9.0		1.0 ... 2.2	50.0	11.3	IPF060N03L G	OptiMOS®3
	6.3			1.2 ... 2.0	50.0	16.0	IPF06N03LB G[1]	OptiMOS®2
	7.5	n.a.		1.0 ... 2.2	50.0	9.7[2]	IPF075N03L G[1]	OptiMOS®3
	9.0	13.5		1.0 ... 2.2	40.0	7.4	IPF090N03L G	OptiMOS®3
	9.3			1.2 ... 2.0	50.0	10.0	IPF09N03LB G[1]	OptiMOS®2
	10.5	n.a.		1.0 ... 2.2	30.0	7.32[2]	IPF105N03L G	OptiMOS®3
	11.8			1.2 ... 2.0	30.0	8.0	IPF12N03LB G[1]	OptiMOS®2
	13.5	20.5		1.0 ... 2.2	30.0	4.8	IPF135N03L G	OptiMOS®3
	14.5			1.2 ... 2.0	30.0	6.0	IPF15N03LB G[1]	OptiMOS®2

1) Can be mass-produced on customer request

2) Preliminary data

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts



I-PAK (TO251)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-60 V	75.0			-4.0 ... -2.1	-30.0	32.0	SPU30P06P	Planar
	130.0			-4.0 ... -2.1	-18.6	22.0	SPU18P06P	Planar
	250.0	400.0		-2.0 ... -1.0	-9.7	14.0	SPU09P06P	Planar
	300.0			-4.0 ... -2.1	-8.8	10.0	SPU08P06P	Planar
25 V	4.0			1.2 ... 2.0	50.0	31.0	IPU04N03LA G	OptiMOS®2
	5.3			1.2 ... 2.0	50.0	19.0	IPU05N03LA G	OptiMOS®2
	5.9			1.2 ... 2.0	50.0	17.0	IPU06N03LA G	OptiMOS®2
	6.2			1.2 ... 2.0	50.0	14.0	IPUH6N03LA G	OptiMOS®2
	8.8			1.2 ... 2.0	50.0	10.0	IPU09N03LA G	OptiMOS®2
	10.4			1.2 ... 2.0	30.0	8.2	IPU10N03LA G	OptiMOS®2
	12.8			1.2 ... 2.0	30.0	6.3	IPU13N03LA G	OptiMOS®2
30 V	3.9	n.a.		1.0 ... 2.2	50.0	27.54 [2]	IPU039N03L G	OptiMOS®3
	4.3			n.a.	50.0	n.a.	IPU04N03LB G	OptiMOS®2
	5.0	n.a.		1.0 ... 2.2	50.0	16.69 [2]	IPU050N03L G	OptiMOS®3
	6.0	9.0		1.0 ... 2.2	50.0	11.3	IPU060N03L G	OptiMOS®3
	6.3			1.2 ... 2.0	50.0	16.0	IPUH6N03LB G	OptiMOS®2
	7.5	n.a.		1.0 ... 2.0	40.0	9.7 [2]	IPU075N03L G	OptiMOS®3
	9.0	14.0		1.0 ... 2.2	40.0	7.4	IPU090N03L G	OptiMOS®3
	9.3			1.2 ... 2.0	50.0	10.0	IPU09N03LB G	OptiMOS®2
	10.5	n.a.		1.0 ... 2.2	30.0	7.32 [2]	IPU105N03L G	OptiMOS®3
	11.8			1.2 ... 2.0	30.0	8.0	IPU12N03LB G[1]	OptiMOS®2
	13.5	21.0		1.0 ... 2.2	30.0	4.8	IPU135N03L G	OptiMOS®3
	14.5			1.2 ... 2.0	30.0	6.0	IPU15N03LB G[1]	OptiMOS®2
85 V	26.0			2.0 ... 4.0	35.0	23.0	IPU26CNE8N G	OptiMOS®2
100 V	170.0			2.1 ... 4.0	10.5	14.6	SPD/U11N10	Planar
	26.0			2.0 ... 4.0	35.0	23.0	IPU26CN10N G	OptiMOS®2
	35.0			2.0 ... 4.0	27.0	18.0	IPU35CN10N G	OptiMOS®2
	49.0			2.0 ... 4.0	20.0	12.0	IPU49CN10N G	OptiMOS®2
	64.0			2.0 ... 4.0	17.0	6.0	IPU64CN10N G	OptiMOS®2
	78.0			2.0 ... 4.0	13.0	8.0	IPU78CN10N G	OptiMOS®2
600 V	6000.0			2.1 ... 3.9	0.8	3.9	SPU01N60C3	CoolMOS™C3
	3000.0			3.5 ... 5.5	1.8	7.3	SPU02N60S5	CoolMOS™S5
	3000.0			2.1 ... 3.9	1.8	9.5	SPU02N60C3	CoolMOS™C3
	1400.0			3.5 ... 5.5	3.2	12.4	SPU03N60S5	CoolMOS™S5
	1400.0			2.1 ... 3.9	3.2	12.4	SPU03N60C3	CoolMOS™C3
	950.0			3.5 ... 5.5	4.5	17.6	SPU04N60S5	CoolMOS™S5
	950.0			2.1 ... 3.9	4.5	17.6	SPU04N60C3	CoolMOS™C3
	600.0			3.5 ... 5.5	7.3	27.0	SPU07N60S5	CoolMOS™S5

1) Can be mass-produced on customer request

2) Preliminary data

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

I-PAK Short Leads (TO251 SL)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
25 V	3.4			1.2 ... 2.0	90.0	31.0	IPS03N03LA G	OptiMOS®2
	4.4			1.2 ... 2.0	90.0	19.0	IPSH4N03LA G	OptiMOS®2
	4.0			1.2 ... 2.0	50.0	31.0	IPS04N03LA G	OptiMOS®2
	5.2			1.2 ... 2.0	50.0	17.0	IPSH5N03LA G	OptiMOS®2
	5.3			1.2 ... 2.0	50.0	19.0	IPS05N03LA G	OptiMOS®2
	5.9			1.2 ... 2.0	50.0	17.0	IPS06N03LA G	OptiMOS®2
	6.2			1.2 ... 2.0	50.0	14.0	IPSH6N03LA G	OptiMOS®2
	8.8			1.2 ... 2.0	50.0	10.0	IPS09N03LA G	OptiMOS®2
	9.2			1.2 ... 2.0	30.0	9.0	IPSH9N03LA G	OptiMOS®2
	10.4			1.2 ... 2.0	30.0	8.2	IPS10N03LA G	OptiMOS®2
	12.8			1.2 ... 2.0	30.0	6.3	IPS13N03LA G	OptiMOS®2
30 V	3.1	4.4		1.0 ... 2.2	90.0	25.0	IPS031N03L G	OptiMOS®3
	3.5			1.2 ... 2.0	90.0	30.0	IPS03N03LB G	OptiMOS®2
	4.0	n.a.		1.2 ... 2.0	n.a.	20.25 [2]	IPS040N03L G	OptiMOS®3
	4.3			1.2 ... 2.0	50.0	30.0	IPS04N03LB G	OptiMOS®2
	5.0	n.a.		1.2 ... 2.0	50.0	16.69 [2]	IPS050N03L G	OptiMOS®3
	5.0			1.2 ... 2.0	90.0	19.0	IPS05N03LB G	OptiMOS®2
	6.0	9.0		1.0 ... 2.2	50.0	11.3	IPS060N03L G	OptiMOS®3
	6.3			1.2 ... 2.0	50.0	16.0	IPS06N03LB G[1]	OptiMOS®2
	7.5	n.a.		1.0 ... 2.2	40.0	9.7 [2]	IPS075N03L G	OptiMOS®3
	9.0	13.5		1.0 ... 2.2	40.0	7.4	IPS090N03L G	OptiMOS®3
	9.3			1.2 ... 2.0	50.0	10.0	IPS09N03LB G	OptiMOS®2
	10.5	n.a.		1.0 ... 2.2	30.0	7.32 [2]	IPS105N03L G	OptiMOS®3
	11.8			1.2 ... 2.0	30.0	8.0	IPS12N03LB G[1]	OptiMOS®2
	13.5	20.5		1.0 ... 2.2	30.0	4.8	IPS135N03L G	OptiMOS®3
	14.5			1.2 ... 2.0	30.0	6.0	IPS15N03LB G[1]	OptiMOS®2
	6.3			1.2 ... 2.0	50.0	16.0	IPSH6N03LB G	OptiMOS®2
500 V	3000.0			2.1 ... 3.9	1.8	9.0	SPS02N50C3	CoolMOS™C3
	1000.0			2.1 ... 3.9	3.2	15.0	SPS03N50C3	CoolMOS™C3
	950.0			2.1 ... 3.9	4.5	22.0	SPS04N50C3	CoolMOS™C3
	520.0			2.5 ... 3.5	7.0	13.0	IPS50R520CP	CoolMOS™CP
600 V	6000.0			2.1 ... 3.9	0.8	3.9	SPS01N60C3	CoolMOS™C3
	3000.0			2.1 ... 3.9	1.8	9.5	SPS02N60C3	CoolMOS™C3
	1400.0			2.1 ... 3.9	3.2	13.0	SPS03N60C3	CoolMOS™C3
	950.0			2.1 ... 3.9	4.5	19.0	SPS04N60C3	CoolMOS™C3

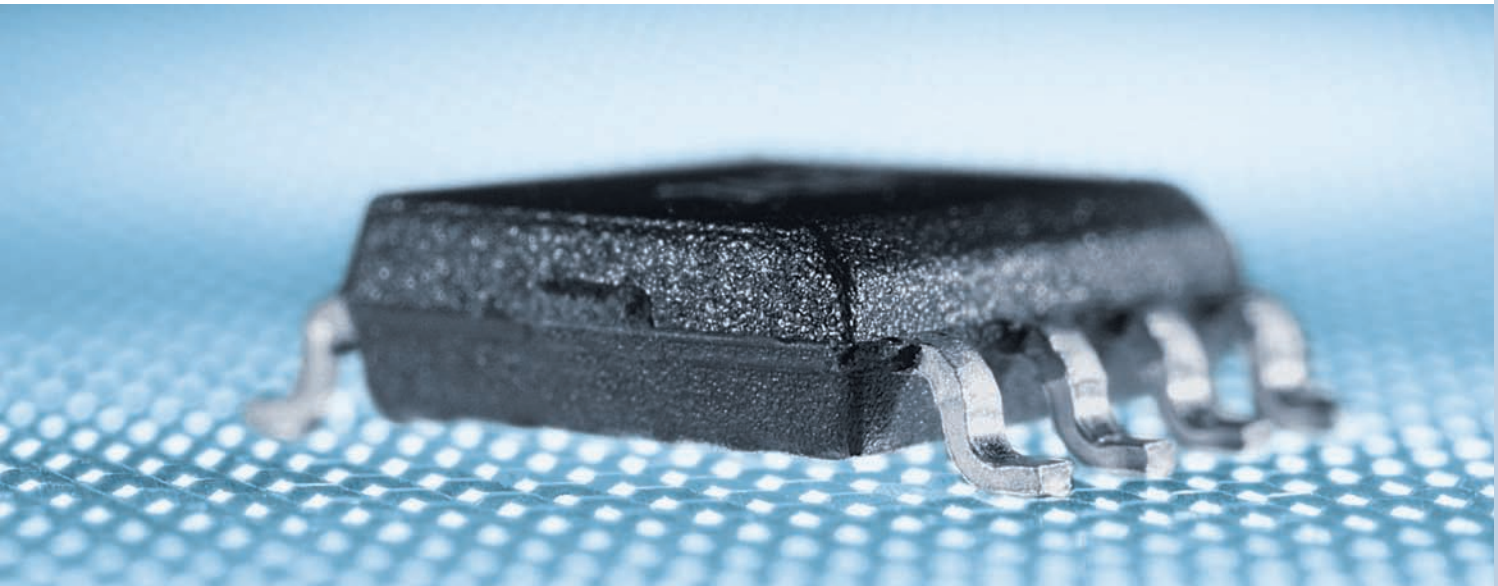
1) Can be mass-produced on customer request

2) Preliminary data

SO8

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-60 V	130.0			-4.0 ... -2.1	-3.44	20.0	BSO613SPV	Planar
-30 V	8.0			-2.2 ... -1.0	-14.9	-102.0	BSO080P03S	OptiMOS®2
	8.0	12.0		-2.0 ... -1.0	-14.9		BSO301Sp	OptiMOS®2
	13.0			-2.2 ... -1.0	-11.3	-61.0	BSO130P03S	OptiMOS®2
	20.0			-2.2 ... -1.0	-9.1	-40.0	BSO200P03S	OptiMOS®2
	21.0	32.0		-2.0 ... -1.0	-8.2	-48.3	BSO303P (dual)	OptiMOS®2
	21.0	32.0		-2.0 ... -1.0	-8.2		BSO303SP	OptiMOS®2
-20 V		8.0	12.9	-1.2 ... -0.6	-14.6	-85.5	BSO201SP	OptiMOS®2
		21.0	34.0	-1.2 ... -0.6	-9.0	-33.6	BSO203Sp	OptiMOS®2
		21.0	35.0	-1.2 ... -0.6	-8.2	-32.4	BSO203P (dual)	OptiMOS®2
		30.0	42.0	-1.2 ... -0.6	-7.0	-23.9	BSO204P (dual)	OptiMOS®2
		45.0	70.0	-1.2 ... -0.6	5.7	15.6	BSO207P (dual)	OptiMOS®2
		67.0	110.0	-1.2 ... -0.6	4.7	15.9	BSO211P (dual)	OptiMOS®2
30 V	5.2			1.2 ... 2.0	17.0	32.0	BSO052N03S	OptiMOS®2
	6.4			1.2 ... 2.0	16.0	21.0	BSO064N03S	OptiMOS®2
	6.8			1.2 ... 2.0	15.0	19.0	BSO072N03S	OptiMOS®2
	9.1			1.2 ... 2.0	13.0	13.0	BSO094N03S	OptiMOS®2
	9.7			1.2 ... 2.0	13.0	12.0	BSO104N03S	OptiMOS®2
	11.9			1.2 ... 2.0	11.0	10.0	BSO119N03S	OptiMOS®2
	15.0			1.2 ... 2.0	9.1	11.0	BSO150N03 (dual)	OptiMOS®2
	20.0			1.2 ... 2.0	7.9	6.0	BSO200N03 (dual)	OptiMOS®2
	20.0			1.2 ... 2.0	8.8	4.9	BSO200N03S	OptiMOS®2
	30.0			1.2 ... 2.0	7.2	3.5	BSO300N03S	OptiMOS®2
	35.0			1.2 ... 2.0	6.0	2.8	BSO350N03 (dual)	OptiMOS®2
60 V	150.0			1.2 ... 2.0	2.6	14.0	BSO615N (dual)	Planar
60 V/ -60 V	110.0	150.0		1.2 ... 2.0	3.1	13.5	BSO615C	Complementary
	300.0	450.0		-2.0 ... -1.0	-2.0	15.0		
	120.0			2.1 ... 4.0	3.0	10.5	BSO612CV	Complementary
	300.0			-4.0 ... -2.1	-2.0	10.3		

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts



SuperSO8

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
25 V	2.0			1.2 ... 2.0	100.0	50.0	BSC020N025S G	OptiMOS®2
	2.4			1.2 ... 2.0	100.0	39.0	BSC024N025S G	OptiMOS®2
	2.9			1.2 ... 2.0	100.0	31.0	BSC029N025S G	OptiMOS®2
	3.7			1.2 ... 2.0	100.0	22.0	BSC037N025S G	OptiMOS®2
	4.8			1.2 ... 2.0	89.0	16.0	BSC048N025S G	OptiMOS®2
	7.2			1.2 ... 2.0	40.0	13.0	BSC072N025S G	OptiMOS®2
	8.5			1.2 ... 2.0	35.0	11.0	BSC085N025S G	OptiMOS®2
	10.6			1.2 ... 2.0	30.0	8.3	BSC106N025S G	OptiMOS®2
30 V	1.6	2.3		1.2 ... 2.0	100.0	56.0	BSC016N03LS G	OptiMOS®3
	2.0	2.9		1.0 ... 2.2	100.0	40.0	BSC020N03LS G	OptiMOS®3
	2.2			1.2 ... 2.0	100.0	48.0	BSC022N03S G	OptiMOS®2
	2.5	n.a.		n.a.	100.0	n.a.	BSC025N03LS G	OptiMOS®3
	2.7			1.2 ... 2.0	100.0	38.0	BSC027N03S G	OptiMOS®2
	3.0	4.7		1.0 ... 2.2	100.0	20.0	BSC030N03LS G	OptiMOS®3
	3.2			1.2 ... 2.0	100.0	29.0	BSC032N03S G	OptiMOS®2
	4.2	5.9		1.0 ... 2.2	95.0	16.8	BSC042N03LS G[1]	OptiMOS®3
	4.2			1.2 ... 2.0	95.0	21.0	BSC042N03S G	OptiMOS®2
	5.0	n.a.		n.a.	80.0	n.a.	BSC050N03LS G[1]	OptiMOS®3
	5.2			1.2 ... 2.0	80.0	16.0	BSC052N03S G	OptiMOS®2
	5.7	n.a.		n.a.	n.a.	n.a.	BSC057N03S G[1]	OptiMOS®3
	5.5			1.2 ... 2.0	73.0	15.0	BSC059N03S G	OptiMOS®2
	6.0			n.a.	73.0	n.a.	BSC060N03LS G[1]	OptiMOS®3
	7.9			1.2 ... 2.0	40.0	13.0	BSC079N03S G	OptiMOS®2
	8.0	n.a.		n.a.	35.0	n.a.	BSC080N03LS G[1]	OptiMOS®3
	9.0	n.a.		n.a.	n.a.	n.a.	BSC090N03LS G[1]	OptiMOS®3
	9.4			1.2 ... 2.0	35.0	10.0	BSC094N03S G	OptiMOS®2
	10.0	n.a.		n.a.	30.0	n.a.	BSC100N03LS G[1]	OptiMOS®3
	11.9			1.2 ... 2.0	30.0	8.0	BSC119N03S G	OptiMOS®2
	12.0	18.1		n.a.	30.0	n.a.	BSC120N03S G[1]	OptiMOS®3
100 V	9.0			2.0 ... 4.0	50.0	66.0	BSC09CN10NS G	OptiMOS®2
	11.0			2.0 ... 4.0	50.0	34.0	BSC11CN10NSF G	OptiMOS®2
	13.0			2.0 ... 4.0	50.0	11.0	BSC13CN10NS G	OptiMOS®2
	17.0			2.0 ... 4.0	50.0	6.0	BSC17CN10NFS G	OptiMOS®2
	22.0			2.0 ... 4.0	50.0	26.0	BSC20CN10NS G	OptiMOS®2
	28.0			2.0 ... 4.0	43.0	13.0	BSC26CN10NSF G	OptiMOS®2

1) Coming 2007

S3O8

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
30 V	3.5	6.0		1.0 ... 2.2	40.0	42.0	BSZ035N03LS G	OptiMOS®3
	4.0	n.a.		1.0 ... 2.2	n.a.	n.a.	BSZ040N03LS G[1]	OptiMOS®3
	5.8	n.a.		n.a.	n.a.	n.a.	BSZ050N03LS G[1]	OptiMOS®3
	5.8	n.a.		n.a.	n.a.	n.a.	BSZ058N03LS G[1]	OptiMOS®3
	8.8	n.a.		n.a.	n.a.	n.a.	BSZ088N03LS G[1]	OptiMOS®3
	10.0	n.a.		n.a.	n.a.	n.a.	BSZ100N03LS G[1]	OptiMOS®3
	13.0	20.0		1.0 ... 2.2	35.0	9.0	BSZ130N03LS G	OptiMOS®3

1) Preliminary data

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

SOT223

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-250 V	4000.0	5000.0		-2.0 ... -1.0	-0.43	11.6	BSP317P	Planar
	12000.0	15000.0		-2.0 ... -1.0	-0.26	4.3	BSP92P	Planar
-100 V	1800.0	2300.0		-2.0 ... -1.0	-0.68	5.1	BSP316P	Planar
	950.0			-4.0 ... -2.1	-0.96	9.6	BSP321P [1)]	Planar
	830.0	1000.0		-2.0 ... -1.0	-1.0	12.0	BSP322P [1)]	Planar
-60 V	130.0			-4.0 ... -2.1	-2.9	22.0	BSP613P	Planar
	300.0			-4.0 ... -2.1	-1.9	12.5	BSP170P	Planar
	300.0	450.0		-2.0 ... -1.0	-1.9	13.3	BSP171P	Planar
	800.0	1400.0		-2.0 ... -1.0	-1.17	5.2	BSP315P	Planar
60 V	90.0	150.0		1.2 ... 2.0	2.6	14.0	BSP318S	Planar
	300.0	500.0		0.8 ... 2.0	1.8	14.0	BSP295	Planar
	120.0			2.1 ... 4.0	2.9	9.7	BSP320S	Planar
100 V	300.0			2.1 ... 4.0	1.7	13.0	BSP373	Planar
	310.0			0.8 ... 2.0	1.7		BSP372	Planar
	700.0			0.8 ... 1.8	1.1	13.8	BSP296	Planar
	6000.0			0.8 ... 1.8	0.37	1.6	BSP123	Planar
200 V	1800.0	3000.0		0.8 ... 1.8	0.66	12.9	BSP297	Planar
240 V	6000.0	7500.0		0.8 ... 1.8	0.35		BSP89	Planar
	6000.0	7500.0	15000.0	0.6 ... 1.4	0.35		BSP88	Planar
400 V	3000.0			2.1 ... 4.0	0.36		BSP298	Planar
	25000.0	22000.0		1.5 ... 2.5	0.32		BSP324	Planar
500 V	4000.0			2.1 ... 4.0	0.4		BSP299	Planar
600 V	45.0			1.5 ... 2.5	0.12	3.9	BSP125	Planar
	500.0			1.4 ... 2.6	0.023	1.4	BSS127	Planar
	45.0			1.3 ... 2.3	0.09	3.9	BSS225	Planar
	6000.0			2.1 ... 3.9	0.3	3.9	SPN01N60C3	CoolMOS™C3
	1400.0			3.5 ... 5.5	0.7	12.8	SPN03N60S5	CoolMOS™S5
	1400.0			2.1 ... 3.9	0.7	13.0	SPN03N60C3	CoolMOS™C3
	3000.0			3.5 ... 5.5	0.4	7.4	SPN02N60S5	CoolMOS™S5
	3000.0			2.1 ... 3.9	0.4	10.0	SPN02N60C3	CoolMOS™C3
	950.0			3.5 ... 5.5	0.8	17.0	SPN04N60S5	CoolMOS™S5
800 V	20.0			2.1 ... 4.0	0.19		BSP300	Planar

1) Coming E/2006

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

SOT89

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-250 V	12000.0	15000.0		-2.0 ... -1.0	-0.19	4.9	BSS192P	Planar
240 V	6000.0	7500.0		0.8 ... 1.8	0.26	3.7	BSS87	Planar

SOT23

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-60 V	2000.0	3000.0		-2.0 ... -1.0	-0.33	2.38	BSS83P	Planar
	8000.0	12000.0		-2.0 ... -1.0	-0.17	1.0	BSS84P	Planar
55 V	650.0	825.0		1.2 ... 2.0	0.54	1.7	BSS670S2L	OptiMOS®
60 V	3500.0	4000.0		0.6 ... 1.4	0.23	1.0	BSS138N	Planar
	5000.0	7500.0		0.8 ... 1.8	0.2	1.0	SN7002N	Planar
	5000.0	7500.0		1.3 ... 2.3	0.2	1.0	BSS7728N	Planar
100 V	6000.0			0.8 ... 1.8	0.17	1.78	BSS123	Planar
	6000.0			1.3 ... 2.3	0.17	1.67	BSS119	Planar
240 V	14000.0	20000.0		0.8 ... 1.8	0.11	2.1	BSS131	Planar

SC59

Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-250 V	11000.0	13000.0		-2.0 ... -1.0	-0.14		BSR92P [1)]	Planar
-100 V	1800.0	2200.0		-2.0 ... -1.0	-0.36	5.1	BSR316 [1)]	Planar
-60 V	800.0	1300.0		-2.0 ... -1.0	-0.62	5.2	BSR315P [1)]	Planar

1) Coming E/2006

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

SOT323

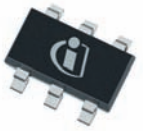
Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-60 V	8000.0	12000.0		-2.0 ... -1.0	-0.15	1.0	BSS84PW [1]	Planar
-20 V		550.0	900.0	-1.2 ... -0.6	-0.58	-0.92	BSS209PW	OptiMOS®2
		100.0	2100.0	-1.2 ... -0.6	-0.39	-0.5	BSS223PW	OptiMOS®2
60 V	3500.0	4000.0		0.6 ... 1.4	0.28	1.0	BSS138W	Planar
	5000.0	7500.0		0.8 ... 1.8	0.23	1.0	SN7002W	Planar

1) $R_{DS(on)\ max.}$ = 25 Ω, @ V_{GS} = 2.7 V

SOT363

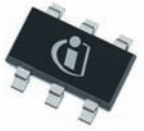
Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-20 V		175.0	285.0	-1.2 ... -0.6	-1.5	-3.8	BSV236SP	OptiMOS®2
		1200.0	2100.0	-1.2 ... -0.6	-0.39	-0.5	BSD223P (dual)	OptiMOS®2

TSOP6



Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-30 V	43.0	74.0		-2.0 ... -1.0	-5.5	-23.4	BSL307SP	OptiMOS®2
-20 V		41.0	65.0	-1.2 ... -0.6	-6.0	-13.3	BSL207SP	OptiMOS®2
		67.0	110.0	-1.2 ... -0.6	-4.7	-8.3	BSL211SP	OptiMOS®2

SC75



Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
-20 V		1200.0	2100.0	-1.2 ... -0.6	-0.39	-0.5	BSA223SP	OptiMOS®2

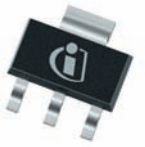
For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts

Depletion MOSFETs

SOT23

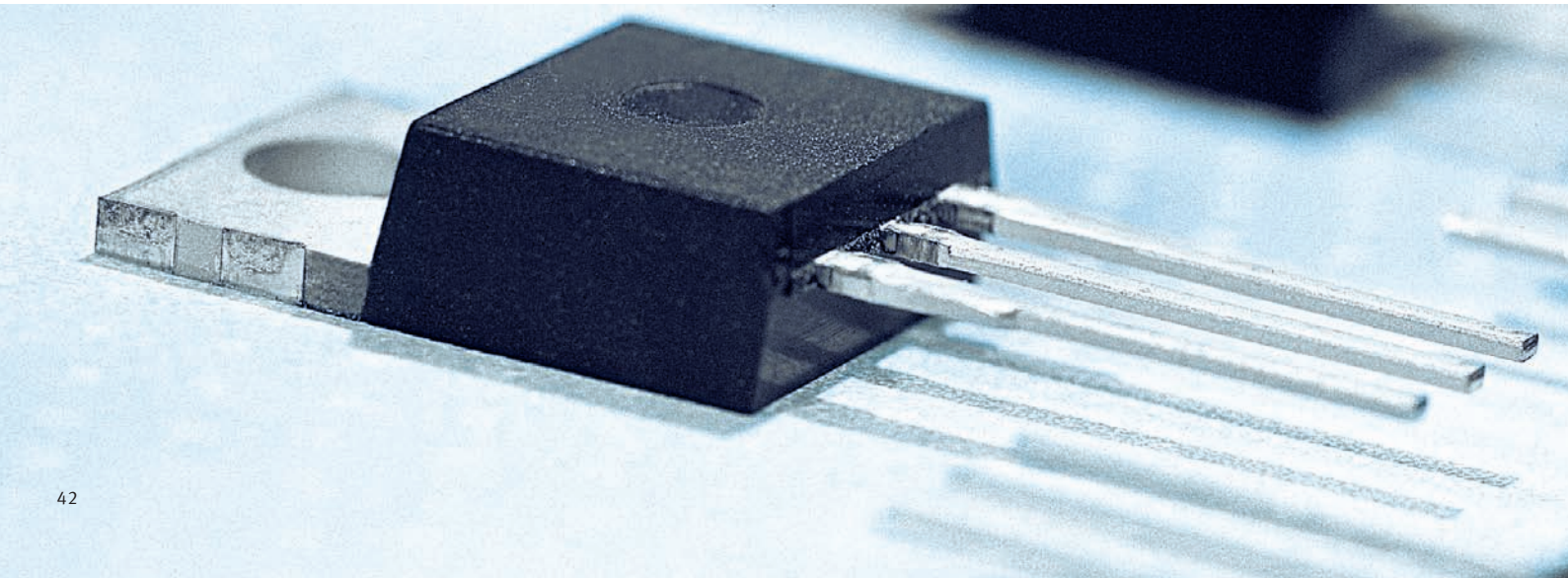
Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
60 V	3.5			-3.5 ... -2.4	0.23	2.2	BSS159N	Planar
100 V	6.0			-2.9 ... -1.8	0.17	2.1	BSS169	Planar
240 V	14.0			-2.1 ... -1.0	0.1	2.3	BSS139	Planar
600 V	500.0			-2.7 ... -1.6	0.021	1.4	BSS126	Planar

SOT223

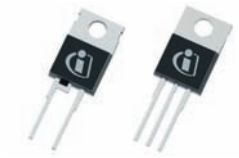


Voltage	$R_{DS(on)\ max.}$ [mΩ]			$V_{GS(th)}$ [V]	I_D [A]	typ. Q_g [nC]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
200 V	1.8			-2.1 ... -1.0	0.66	11.0	BSP149	Planar
240 V	6.0			-2.1 ... -1.0	0.35	3.8	BSP129	Planar
600 V	45.0			-2.1 ... -1.0	0.12	3.7	BSP135	Planar

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts



HV Diodes



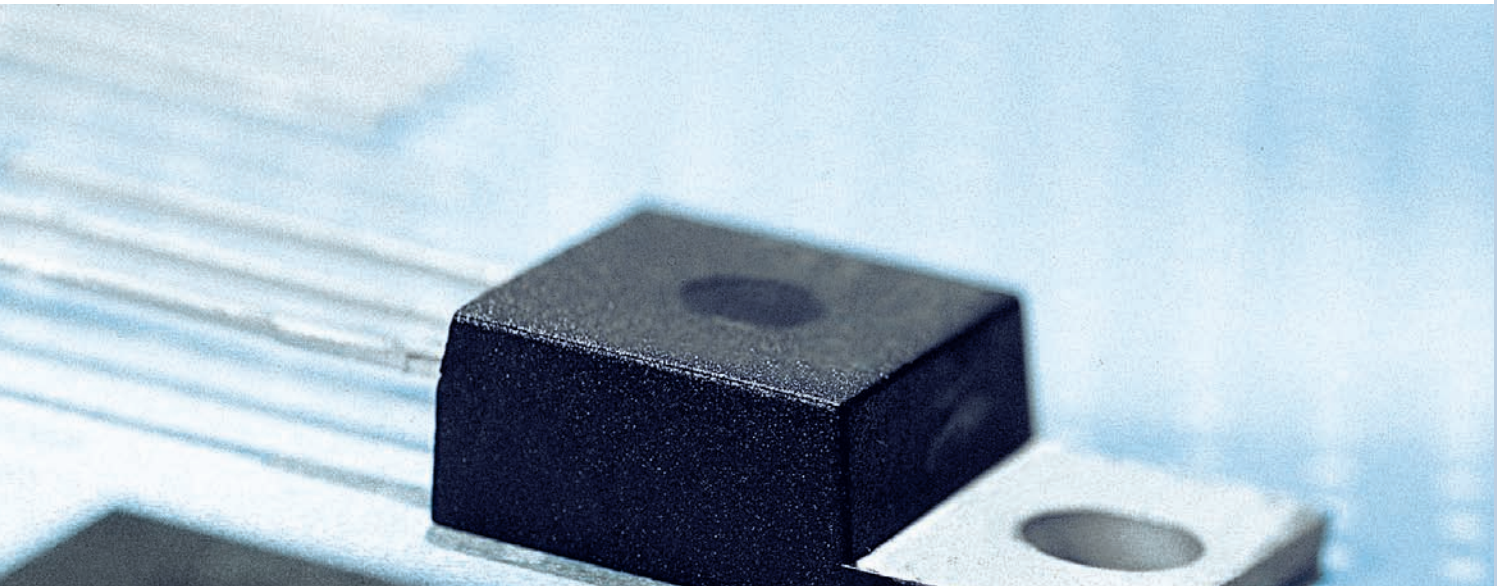
TO220

Voltage	$R_{DS(on)\ max.}$ [mΩ]			I_F [A]	typ. Q_C [nC]	$I_{F,SD}$ [A]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
300 V				10.0	23.0	36.0	SDT10S30	ThinQ!™
				10.0	23.0	36.0	SDP10S30	ThinQ!™
				2 x 10.0	23.0	36.0	SDP20S30	ThinQ!™
600 V				4.0	32.0	8.0	IDT04S60C	ThinQ!™ 2G
				5.0	42.0	12.0	IDT05S60C	ThinQ!™ 2G
				2 x 5.0	84.0	24.0	IDT10S60C	ThinQ!™ 2G
				6.0	49.0	15.0	IDT06S60C	ThinQ!™ 2G
				2 x 6.0	98.0	30.0	IDT12S60C	ThinQ!™ 2G
				8.0	59.0	19.0	IDT08S60C	ThinQ!™ 2G
				2 x 8.0	118.0	38.0	IDT16S60C	ThinQ!™ 2G

D-PAK (TO252)

Voltage	$R_{DS(on)\ max.}$ [mΩ]			I_F [A]	typ. Q_C [nC]	$I_{F,SD}$ [A]	Type	Technology
	@ V_{GS} = 10 V	@ V_{GS} = 4.5 V	@ V_{GS} = 2.5 V					
600 V				4.0	32.0	8.0	IDD04S60C	ThinQ!™ 2G

For an overview about ROHS-compliant products please go to www.infineon.com/greenproducts



Alphanumeric Listing

Product Name	Technology	Voltage Class	Page
BSA223SP	OptiMOS®2	-20 V	41
BSC016N03LS G	OptiMOS®3	30 V	38
BSC020N025S G	OptiMOS®2	25 V	38
BSC020N03LS G	OptiMOS®3	30 V	38
BSC022N03S G	OptiMOS®2	30 V	38
BSC024N025S G	OptiMOS®2	25 V	38
BSC025N03LS G	OptiMOS®3	30 V	38
BSC027N03S G	OptiMOS®2	30 V	38
BSC029N025S G	OptiMOS®2	25 V	38
BSC030N03LS G	OptiMOS®3	30 V	38
BSC032N03S G	OptiMOS®2	30 V	38
BSC037N025S G	OptiMOS®2	25 V	38
BSC042N03LS G	OptiMOS®3	30 V	38
BSC042N03S G	OptiMOS®2	30 V	38
BSC048N025S G	OptiMOS®2	25 V	38
BSC050N03LS G	OptiMOS®3	30 V	38
BSC052N03S G	OptiMOS®2	30 V	38
BSC059N03S G	OptiMOS®2	30 V	38
BSC060N03LS G	OptiMOS®3	30 V	38
BSC072N025S G	OptiMOS®2	25 V	38
BSC079N03S G	OptiMOS®2	30 V	38
BSC080N03LS G	OptiMOS®3	30 V	38
BSC085N025S G	OptiMOS®2	25 V	38
BSC094N03S G	OptiMOS®2	30 V	38
BSC09CN10NS G	OptiMOS®2	100 V	38
BSC100N03LS G	OptiMOS®3	30 V	38
BSC106N025S G	OptiMOS®2	25 V	38
BSC119N03S G	OptiMOS®2	30 V	38
BSC11CN10NSF G	OptiMOS®2	100 V	38
BSC120N03S G	OptiMOS®3	30 V	38
BSC13CN10NS G	OptiMOS®2	100 V	38
BSC17CN10NFS G	OptiMOS®2	100 V	38
BSC20CN10NS G	OptiMOS®2	100 V	38
BSC26CN10NSF G	OptiMOS®2	100 V	38
BSD223P (dual)	OptiMOS®2	-20 V	41
BSL207SP	OptiMOS®2	-20 V	41
BSL211SP	OptiMOS®2	-20 V	41
BSL307SP	OptiMOS®2	-30 V	41
BSO052N03S	OptiMOS®2	30 V	37
BSO064N03S	OptiMOS®2	30 V	37
BSO072N03S	OptiMOS®2	30 V	37
BSO080P03S	OptiMOS®2	-30 V	37
BSO094N03S	OptiMOS®2	30 V	37
BSO104N03S	OptiMOS®2	30 V	37
BSO119N03S	OptiMOS®2	30 V	37
BSO130P03S	OptiMOS®2	-30 V	37
BSO150N03 (dual)	OptiMOS®2	30 V	37
BSO200N03 (dual)	OptiMOS®2	30 V	37
BSO200N03S	OptiMOS®2	30 V	37
BSO200P03S	OptiMOS®2	-30 V	37
BSO201SP	OptiMOS®2	-20 V	37
BSO203P (dual)	OptiMOS®2	-20 V	37
BSO203Sp	OptiMOS®2	-20 V	37
BSO204P (dual)	OptiMOS®2	-20 V	37
BSO207P (dual)	OptiMOS®2	-20 V	37
BSO211P (dual)	OptiMOS®2	-20 V	37
BSO300N03S	OptiMOS®2	30 V	37
BSO301Sp	OptiMOS®2	-30 V	37
BSO303P (dual)	OptiMOS®2	-30 V	37
BSO303SP	OptiMOS®2	-30 V	37
BSO350N03 (dual)	OptiMOS®2	30 V	37
BSO612CV	Complementary	-60 V	37
BSO612CV	Complementary	60 V	37
BSO613SPV	Planar MOSFET	-60 V	37
BSO615C	Complementary	-60 V	37
BSO615C	Complementary	60 V	37
BSO615N (dual)	Planar MOSFET	60 V	37
BSP123	Planar MOSFET	100 V	39
BSP125	Planar MOSFET	600 V	39
BSP129	Planar MOSFET	240 V	42
BSP135	Planar MOSFET	600 V	42
BSP149	Planar MOSFET	200 V	42
BSP170P	Planar MOSFET	-60 V	39
BSP171P	Planar MOSFET	-60 V	39
BSP295	Planar MOSFET	60 V	39
BSP296	Planar MOSFET	100 V	39
BSP297	Planar MOSFET	200 V	39
BSP298	Planar MOSFET	400 V	39
BSP299	Planar MOSFET	500 V	39
BSP300	Planar MOSFET	800 V	39
BSP315P	Planar MOSFET	-60 V	39
BSP316P	Planar MOSFET	-100 V	39
BSP317P	Planar MOSFET	-250 V	39
BSP318S	Planar MOSFET	60 V	39
BSP320S	Planar MOSFET	60 V	39
BSP321P	Planar MOSFET	-100 V	39
BSP322P	Planar MOSFET	-100 V	39
BSP324	Planar MOSFET	400 V	39
BSP372	Planar MOSFET	100 V	39
BSP373	Planar MOSFET	100 V	39
BSP613P	Planar MOSFET	-60 V	39
BSP88	Planar MOSFET	240 V	39
BSP89	Planar MOSFET	240 V	39
BSP92P	Planar MOSFET	-250 V	39
BSR315P	Planar MOSFET	-60 V	40
BSR316	Planar MOSFET	-100 V	40
BSR92P	Planar MOSFET	-250 V	40
BSS119	Planar MOSFET	100 V	40
BSS123	Planar MOSFET	100 V	40
BSS126	Planar MOSFET	600 V	42
BSS127	Planar MOSFET	600 V	39
BSS131	Planar MOSFET	240 V	40
BSS138N	Planar MOSFET	60 V	40
BSS138W	Planar MOSFET	60 V	41
BSS139	Planar MOSFET	240 V	42
BSS159N	Planar MOSFET	60 V	42
BSS169	Planar MOSFET	100 V	42
BSS192P	Planar MOSFET	-250 V	40
BSS209PW	OptiMOS®2	-20 V	41
BSS223PW	OptiMOS®2	-20 V	41
BSS225	Planar MOSFET	600 V	39
BSS670S2L	OptiMOS®	55 V	40
BSS7728N	Planar MOSFET	60 V	40
BSS83P	Planar MOSFET	-60 V	40
BSS84P	Planar MOSFET	-60 V	40
BSS84PW	Planar MOSFET	-60 V	41
BSS87	Planar MOSFET	240 V	40
BSV236SP	OptiMOS®2	-20 V	41
BSZ035N03LS G	OptiMOS®3	30 V	38
BSZ130N03LS G	OptiMOS®3	30 V	38
BUZ30A	Planar MOSFET	200 V	29
BUZ31	Planar MOSFET	200 V	29
BUZ31	Planar MOSFET	200 V	31
BUZ32	Planar MOSFET	200 V	29
BUZ73	Planar MOSFET	200 V	31
BUZ73A	Planar MOSFET	200 V	31
IDD04S60C	ThinQ!™ 2G	600 V	43
IDT04S60C	ThinQ!™ 2G	600 V	43
IDT05S60C	ThinQ!™ 2G	600 V	43
IDT06S60C	ThinQ!™ 2G	600 V	43
IDT08S60C	ThinQ!™ 2G	600 V	43
IDT10S60C	ThinQ!™ 2G	600 V	43
IDT12S60C	ThinQ!™ 2G	600 V	43
IDT16S60C	ThinQ!™ 2G	600 V	43
IPA50R140CP	CoolMOS™CP	500 V	27
IPA50R199CP	CoolMOS™CP	500 V	27
IPA50R250CP	CoolMOS™CP	500 V	27
IPA50R299CP	CoolMOS™CP	500 V	27
IPA50R350CP	CoolMOS™CP	500 V	27
IPA50R399CP	CoolMOS™CP	500 V	27
IPA50R520CP	CoolMOS™CP	500 V	27
IPA60R125CP	CoolMOS™CP	600 V	27
IPA60R165CP	CoolMOS™CP	600 V	27
IPA60R199CP	CoolMOS™CP	600 V	27
IPA60R299CP	CoolMOS™CP	600 V	27
IPA60R385CP	CoolMOS™CP	600 V	27
IPB02xN03L G	OptiMOS®3	30 V	28
IPB034N03L G	OptiMOS®3	30 V	28
IPB03N03LA G	OptiMOS®2	25 V	28
IPB03N03LB G	OptiMOS®2	30 V	28
IPB042N03L G	OptiMOS®3	30 V	28
IPB048N06L G	OptiMOS®	60 V	28
IPB04CN10N G	OptiMOS®2	100 V	29
IPB04CNE8N G	OptiMOS®2	85 V	28
IPB04N03LA G	OptiMOS®2	25 V	28
IPB04N03LB G	OptiMOS®2	30 V	28
IPB050N06N G	OptiMOS®	60 V	28
IPB051NE8N G	OptiMOS®2	85 V	28
IPB055N03L G	OptiMOS®3	30 V	28
IPB05CN10N G	OptiMOS®2	100 V	29
IPB05N03LA G	OptiMOS®2	25 V	28
IPB05N03LB G	OptiMOS®2	30 V	28
IPB065N03L G	OptiMOS®3	30 V	28
IPB065N06L G	OptiMOS®	60 V	28
IPB06CN10N G	OptiMOS®2	100 V	29
IPB06CNE8N G	OptiMOS®2	85 V	28
IPB06N03LA G	OptiMOS®2	25 V	28
IPB06N03LB G	OptiMOS®2	30 V	28
IPB070N06L G	OptiMOS®	60 V	28
IPB070N06N G	OptiMOS®	60 V	28
IPB080N03L G	OptiMOS®3	30 V	28
IPB080N06N G	OptiMOS®	60 V	28
IPB085N06L G	OptiMOS®	60 V	28
IPB08CN10N G	OptiMOS®2	100 V	29
IPB08CNE8N G	OptiMOS®2	85 V	28
IPB091N06N G	OptiMOS®	60 V	28
IPB096N03L G	OptiMOS®3	30 V	28
IPB09N03LA G	OptiMOS®2	25 V	28
IPB10N03LB G	OptiMOS®2	30 V	28
IPB110N06L G	OptiMOS®	60 V	28
IPB114N03LB G	OptiMOS®3	30 V	28
IPB11N03LA G	OptiMOS®2	25 V	28
IPB120N06N G	OptiMOS®	60 V	28
IPB12CN10N G	OptiMOS®2	100 V	29
IPB12CNE8N G	OptiMOS®2	85 V	28
IPB13N03LB G	OptiMOS®2	30 V	28
IPB147N03L G	OptiMOS®3	30 V	28
IPB14N03LA G	OptiMOS®2	25 V	28
IPB16CN10N G	OptiMOS®2	100 V	29
IPB16CNE8N G	OptiMOS®2	85 V	28
IPB26CN10N G	OptiMOS®2	100 V	29
IPB26CNE8N G	OptiMOS®2	85 V	28
IPB35CN10N G	OptiMOS®2	100 V	29
IPB50CN10N G	OptiMOS®2	100 V	29
IPB50R140CP	CoolMOS™CP	500 V	29
IPB50R199CP	CoolMOS™CP	500 V	29
IPB50R250CP	CoolMOS™CP	500 V	29
IPB50R299CP	CoolMOS™CP	500 V	29
IPB60R099CP	CoolMOS™CP	600 V	29
IPB60R165CP	CoolMOS™CP	600 V	29
IPB80CN10N G	OptiMOS®2	100 V	29
IPBH6N03LA G	OptiMOS®2	25 V	28
IPD022N03L G	OptiMOS®3	30 V	32
IPD031N03L G	OptiMOS®3	30 V	32
IPD03N03LA G	OptiMOS®2	25 V	32
IPD03N03LB G	OptiMOS®2	30 V	32
IPD040N03L G	OptiMOS®3	30 V	32
IPD04N03LA G	OptiMOS®2	25 V	32
IPD04N03LB G	OptiMOS®2	30 V	32
IPD050N03L G	OptiMOS®3	30 V	32
IPD05N03LA G	OptiMOS®2	25 V	32
IPD05N03LB G	OptiMOS®2	30 V	32
IPD060N03L G	OptiMOS®3	30 V	32
IPD06N03LA G	OptiMOS®2	25 V	32
IPD06N03LB G	OptiMOS®2	30 V	32
IPD075N03L G	OptiMOS®3	30 V	32
IPD090N03L G	OptiMOS®3	30 V	32
IPD09N03LA G	OptiMOS®2	25 V	32
IPD09N03LB G	OptiMOS®2	30 V	32
IPD105N03L G	OptiMOS®3	30 V	32
IPD10N03LA G	OptiMOS®2	25 V	32
IPD127N06L G	OptiMOS®	60 V	33

Product Name	Technology	Voltage Class	Page
IPD12CN10N G	OptiMOS®2	100 V	33
IPD12CNE8N G	OptiMOS®2	85 V	33
IPD12N03LB G	OptiMOS®2	30 V	32
IPD135N03L G	OptiMOS®3	30 V	32
IPD13N03LA G	OptiMOS®2	25 V	32
IPD144N06N G	OptiMOS®	60 V	33
IPD14N03LB G	OptiMOS®2	30 V	32
IPD16CN10N G	OptiMOS®2	100 V	33
IPD16CNE8N G	OptiMOS®2	85 V	33
IPD230N06L G	OptiMOS®	60 V	33
IPD230N06N G	OptiMOS®	60 V	33
IPD25CN10N G	OptiMOS®2	100 V	33
IPD25CNE8N G	OptiMOS®2	85 V	33
IPD33CN10N G	OptiMOS®2	100 V	33
IPD350N06L G 1)	OptiMOS®	60 V	33
IPD400N06N G	OptiMOS®	60 V	33
IPD49CN10N G	OptiMOS®2	100 V	33
IPD50R399CP	CoolMOS™CP	500 V	33
IPD50R520CP	CoolMOS™CP	500 V	33
IPD60R385CP	CoolMOS™CP	600 V	33
IPD640N06L G	OptiMOS®	60 V	33
IPD64CN10N G	OptiMOS®2	100 V	33
IPD78CN10N G	OptiMOS®2	100 V	33
IPD800N06N G	OptiMOS®	60 V	33
IPDH4N03LA G	OptiMOS®2	25 V	32
IPDH5N03LA G	OptiMOS®2	25 V	32
IPDH6N03LA G	OptiMOS®2	25 V	32
IPDH9N03LA G	OptiMOS®2	25 V	32
IPF039N03L G	OptiMOS®3	30 V	34
IPF04N03LA G	OptiMOS®2	25 V	34
IPF04N03LB G	OptiMOS®2	30 V	34
IPF050N03L G	OptiMOS®3	30 V	34
IPF05N03LA G	OptiMOS®2	25 V	34
IPF060N03L G	OptiMOS®3	30 V	34
IPF06N03LA G	OptiMOS®2	25 V	34
IPF06N03LB G	OptiMOS®2	30 V	34
IPF075N03L G	OptiMOS®3	30 V	34
IPF090N03L G	OptiMOS®3	30 V	34
IPF09N03LA G	OptiMOS®2	25 V	34
IPF09N03LB G	OptiMOS®2	30 V	34
IPF105N03L G	OptiMOS®3	30 V	34
IPF10N03LA G	OptiMOS®2	25 V	34
IPF12N03LB G	OptiMOS®2	30 V	34
IPF135N03L G	OptiMOS®3	30 V	34
IPF13N03LA G	OptiMOS®2	25 V	34
IPF15N03LB G	OptiMOS®2	30 V	34
IPFH6N03LA G	OptiMOS®2	25 V	34
IPI03N03LA	OptiMOS®2	25 V	30
IPI03N03LB G	OptiMOS®2	30 V	30
IPI04CN10N G	OptiMOS®2	100 V	30
IPI04CNE8N G	OptiMOS®2	85 V	30
IPI04N03LA	OptiMOS®2	25 V	30
IPI04N03LB G	OptiMOS®2	30 V	30
IPI054NE8N G	OptiMOS®2	85 V	30
IPI05CN10N G	OptiMOS®2	100 V	30
IPI05N03LA	OptiMOS®2	25 V	30
IPI05N03LB G	OptiMOS®2	30 V	30
IPI06CN10N G	OptiMOS®2	100 V	30
IPI06CNE8N G	OptiMOS®2	85 V	30
IPI06N03LA	OptiMOS®2	25 V	30
IPI070N06N G	OptiMOS®	60 V	30
IPI07N03LB G	OptiMOS®2	30 V	30
IPI08CN10N G	OptiMOS®2	100 V	30
IPI08CNE8N G	OptiMOS®2	85 V	30
IPI09N03LA	OptiMOS®2	25 V	30
IPI10N03LB G	OptiMOS®2	30 V	30
IPI11N03LA	OptiMOS®2	25 V	30
IPI12CN10N G	OptiMOS®2	100 V	30
IPI12CNE8N G	OptiMOS®2	85 V	30
IPI13N03LB G	OptiMOS®2	30 V	30
IPI14N03LA	OptiMOS®2	25 V	30
IPI15N03LB G	OptiMOS®2	30 V	30
IPI16CN10N G	OptiMOS®2	100 V	30
IPI16CNE8N G	OptiMOS®2	85 V	30
IPI26CN10N G	OptiMOS®2	100 V	30
IPI26CNE8N G	OptiMOS®2	85 V	30
IPI35CN10N G	OptiMOS®2	100 V	30
IPI50CN10N G	OptiMOS®2	100 V	30
IPI50R350CP	CoolMOS™CP	500 V	31
IPI50R399CP	CoolMOS™CP	500 V	31
IPI60R199CP	CoolMOS™CP	600 V	31
IPI60R299CP	CoolMOS™CP	600 V	31
IPI60R385CP	CoolMOS™C3	600 V	31
IPI80CN10N G	OptiMOS®2	100 V	30
IPP034N03L G	OptiMOS®3	30 V	24
IPP03N03LA	OptiMOS®2	25 V	24
IPP03N03LB G	OptiMOS®2	30 V	24
IPP042N03L G	OptiMOS®3	30 V	24
IPP04CN10N G	OptiMOS®2	100 V	25
IPP04CNE8N G	OptiMOS®2	85 V	25
IPP04N03LA	OptiMOS®2	25 V	24
IPP04N03LB G	OptiMOS®2	30 V	24
IPP050N06N G	OptiMOS®	60 V	25
IPP054NE8N G	OptiMOS®2	85 V	25
IPP055N03L G	OptiMOS®3	30 V	24
IPP05CN10N G	OptiMOS®2	100 V	25
IPP05N03LA	OptiMOS®2	25 V	24
IPP05N03LB G	OptiMOS®2	30 V	24
IPP065N03L G	OptiMOS®3	30 V	24
IPP065N06L G	OptiMOS®	60 V	25
IPP06CN10N G	OptiMOS®2	100 V	25
IPP06CNE8N G	OptiMOS®2	85 V	25
IPP06N03LA	OptiMOS®2	25 V	24
IPP070N06L G	OptiMOS®	60 V	25
IPP070N06N G	OptiMOS®	60 V	25
IPP07N03LB G	OptiMOS®2	30 V	24
IPP080N03L G	OptiMOS®3	30 V	24
IPP080N06N G	OptiMOS®	60 V	25
IPP085N06L G	OptiMOS®	60 V	25
IPP08CN10N G	OptiMOS®2	100 V	25
IPP08CNE8N G	OptiMOS®2	85 V	25

Product Name	Technology	Voltage Class	Page
IPP091N06N G	OptiMOS®	60 V	25
IPP096N03L G	OptiMOS®3	30 V	24
IPP09N03LA	OptiMOS®2	25 V	24
IPP10N03LB G	OptiMOS®2	30 V	24
IPP110N06L G	OptiMOS®	60 V	25
IPP114N03L G	OptiMOS®3	30 V	24
IPP11N03LA	OptiMOS®2	25 V	24
IPP120N06N G	OptiMOS®	60 V	25
IPP12CN10N G	OptiMOS®2	100 V	25
IPP12CNE8N G	OptiMOS®2	85 V	25
IPP13N03LB G	OptiMOS®2	30 V	24
IPP147N03L G	OptiMOS®3	30 V	24
IPP14N03LA	OptiMOS®2	25 V	24
IPP15N03LB G	OptiMOS®2	30 V	24
IPP16CN10N G	OptiMOS®2	100 V	25
IPP16CNE8N G	OptiMOS®2	85 V	25
IPP26CN10N G	OptiMOS®2	100 V	25
IPP26CNE8N G	OptiMOS®2	85 V	25
IPP35CN10N G	OptiMOS®2	100 V	25
IPP48N06L G	OptiMOS®	60 V	25
IPP50CN10N G	OptiMOS®2	100 V	25
IPP50R140CP	CoolMOS™CP	500 V	25
IPP50R199CP	CoolMOS™CP	500 V	25
IPP50R250CP	CoolMOS™CP	500 V	25
IPP50R299CP	CoolMOS™CP	500 V	25
IPP50R350CP	CoolMOS™CP	500 V	25
IPP50R399CP	CoolMOS™CP	500 V	25
IPP50R520CP	CoolMOS™CP	500 V	25
IPP60R099CP	CoolMOS™CP	600 V	26
IPP60R125CP	CoolMOS™CP	600 V	26
IPP60R165CP	CoolMOS™CP	600 V	26
IPP60R199CP	CoolMOS™CP	600 V	26
IPP60R299CP	CoolMOS™CP	600 V	26
IPP60R385CP	CoolMOS™CP	600 V	26
IPP80CN10N G	OptiMOS®2	100 V	25
IPS031N03L G	OptiMOS®3	30 V	36
IPS03N03LA G	OptiMOS®2	25 V	36
IPS03N03LB G	OptiMOS®2	30 V	36
IPS040N03L G	OptiMOS®3	30 V	36
IPS04N03LA G	OptiMOS®2	25 V	36
IPS04N03LB G	OptiMOS®2	30 V	36
IPS050N03L G	OptiMOS®3	30 V	36
IPS05N03LA G	OptiMOS®2	25 V	36
IPS05N03LB G	OptiMOS®2	30 V	36
IPS060N03L G	OptiMOS®3	30 V	36
IPS06N03LA G	OptiMOS®2	25 V	36
IPS06N03LB G	OptiMOS®2	30 V	36
IPS075N03L G	OptiMOS®3	30 V	36
IPS090N03L G	OptiMOS®3	30 V	36
IPS09N03LA G	OptiMOS®2	25 V	36
IPS09N03LB G	OptiMOS®2	30 V	36
IPS105N03L G	OptiMOS®3	30 V	36
IPS10N03LA G	OptiMOS®2	25 V	36
IPS12N03LB G	OptiMOS®2	30 V	36
IPS135N03L G	OptiMOS®3	30 V	36
IPS13N03LA G	OptiMOS®2	25 V	36
IPS15N03LB G	OptiMOS®2	30 V	36
IPS50R520CP	CoolMOS™CP	500 V	36
IPSH4N03LA G	OptiMOS®2	25 V	36
IPSH5N03LA G	OptiMOS®2	25 V	36
IPSH6N03LA G	OptiMOS®2	25 V	36
IPSH6N03LB G	OptiMOS®2	30 V	36
IPSH9N03LA G	OptiMOS®2	25 V	36
IPU039N03L G	OptiMOS®3	30 V	35
IPU04N03LA G	OptiMOS®2	25 V	35
IPU04N03LB G	OptiMOS®2	30 V	35
IPU050N03L G	OptiMOS®3	30 V	35
IPU05N03LA G	OptiMOS®2	25 V	35
IPU060N03L G	OptiMOS®3	30 V	35
IPU06N03LA G	OptiMOS®2	25 V	35
IPU075N03L G	OptiMOS®3	30 V	35
IPU090N03L G	OptiMOS®3	30 V	35
IPU09N03LA G	OptiMOS®2	25 V	35
IPU09N03LB G	OptiMOS®2	30 V	35
IPU105N03L G	OptiMOS®3	30 V	35
IPU10N03LA G	OptiMOS®2	25 V	35
IPU12N03LB G	OptiMOS®2	30 V	35
IPU135N03L G	OptiMOS®3	30 V	35
IPU13N03LA G	OptiMOS®2	25 V	35
IPU15N03LB G	OptiMOS®2	30 V	35
IPU26CN10N G	OptiMOS®2	100 V	35
IPU26CNE8N G	OptiMOS®2	85 V	35
IPU35CN10N G	OptiMOS®2	100 V	35
IPU49CN10N G	OptiMOS®2	100 V	35
IPU64CN10N G	OptiMOS®2	100 V	35
IPU78CN10N G	OptiMOS®2	100 V	35
IPUH6N03LA G	OptiMOS®2	25 V	35
IPUH6N03LB G	OptiMOS®2	30 V	35
IPW50R140CP	CoolMOS™CP	500 V	23
IPW50R199CP	CoolMOS™CP	500 V	23
IPW60R045CP	CoolMOS™CP	600 V	23
IPW60R099CP	CoolMOS™CP	600 V	23
IPW60R125CP	CoolMOS™CP	600 V	23
IPW60R165CP	CoolMOS™CP	600 V	23
IPW60R199CP	CoolMOS™CP	600 V	23
SDP10S30	ThinQ!™	300 V	43
SDP20S30	ThinQ!™	300 V	43
SDT10S30	ThinQ!™	300 V	43
SN7002N	Planar MOSFET	60 V	40
SN7002W	Planar MOSFET	60 V	41
SPA02N80C3	CoolMOS™C3	800 V	27
SPA03N60C3	CoolMOS™C3	600 V	27
SPA04N50C3	CoolMOS™C3	500 V	27
SPA04N60C3	CoolMOS™C3	600 V	27
SPA04N80C3	CoolMOS™C3	800 V	27
SPA06N60C3	CoolMOS™C3	600 V	27
SPA06N80C3	CoolMOS™C3	800 V	27
SPA07N60C3	CoolMOS™C3	600 V	27
SPA07N60CFD	CoolMOS™CFD	600 V	27
SPA07N65C3	CoolMOS™C3	650 V	27
SPA08N50C3	CoolMOS™C3	500 V	27

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Product Name	Technology	Voltage Class	Page
SPA08N80C3	CoolMOS™C3	800 V	27
SPA11N60C3	CoolMOS™C3	600 V	27
SPA11N60CFD	CoolMOS™CFD	600 V	27
SPA11N65C3	CoolMOS™C3	650 V	27
SPA11N80C3	CoolMOS™C3	800 V	27
SPA12N50C3	CoolMOS™C3	500 V	27
SPA15N60C3	CoolMOS™C3	600 V	27
SPA15N60CFD	CoolMOS™CFD	600 V	27
SPA16N50C3	CoolMOS™C3	500 V	27
SPA17N80C3	CoolMOS™C3	800 V	27
SPA20N60C3	CoolMOS™C3	600 V	27
SPA20N60CFD	CoolMOS™CFD	600 V	27
SPA20N65C3	CoolMOS™C3	650 V	27
SPA21N50C3	CoolMOS™C3	500 V	27
SPB02N60C3	CoolMOS™C3	600 V	29
SPB02N60S5	CoolMOS™S5	600 V	29
SPB03N60C3	CoolMOS™C3	600 V	29
SPB03N60S5	CoolMOS™S5	600 V	29
SPB04N50C3	CoolMOS™C3	500 V	29
SPB04N60C3	CoolMOS™C3	600 V	29
SPB04N60S5	CoolMOS™S5	600 V	29
SPB07N60C3	CoolMOS™C3	600 V	29
SPB07N60S5	CoolMOS™S5	600 V	29
SPB08P06P	Planar MOSFET	-60 V	28
SPB11N60C3	CoolMOS™C3	600 V	29
SPB11N60S5	CoolMOS™S5	600 V	29
SPB12N50C3	CoolMOS™C3	500 V	29
SPB16N50C3	CoolMOS™C3	500 V	29
SPB17N80C3	CoolMOS™C3	800 V	29
SPB18P06P	Planar MOSFET	-60 V	28
SPB20N60C3	CoolMOS™C3	600 V	29
SPB20N60S5	CoolMOS™S5	600 V	29
SPB21N50C3	CoolMOS™C3	500 V	29
SPB80P06P	Planar MOSFET	-60 V	28
SPD/U11N10	Planar MOSFET	100 V	35
SPD01N60C3	CoolMOS™C3	600 V	33
SPD02N50C3	CoolMOS™C3	500 V	33
SPD02N60C3	CoolMOS™C3	600 V	33
SPD02N60S5	CoolMOS™S5	600 V	33
SPD02N80C3	CoolMOS™C3	800 V	33
SPD03N50C3	CoolMOS™C3	500 V	33
SPD03N60C3	CoolMOS™C3	600 V	33
SPD03N60S5	CoolMOS™S5	600 V	33
SPD04N50C3	CoolMOS™C3	500 V	33
SPD04N60C3	CoolMOS™C3	600 V	33
SPD04N60S5	CoolMOS™S5	600 V	33
SPD04N80C3	CoolMOS™C3	800 V	33
SPD04P10P G	Planar MOSFET	-100 V	32
SPD04P10PL G	Planar MOSFET	-100 V	32
SPD06N60C3	CoolMOS™C3	600 V	33
SPD06N80C3	CoolMOS™C3	800 V	33
SPD07N20	Planar MOSFET	200 V	33
SPD07N60C3	CoolMOS™C3	600 V	33
SPD07N60S5	CoolMOS™S5	600 V	33
SPD08N50C3	CoolMOS™C3	500 V	33
SPD08P06P	Planar MOSFET	-60 V	32
SPD09P06P	Planar MOSFET	-60 V	32
SPD15P10P G	Planar MOSFET	-100 V	32
SPD15P10PL G	Planar MOSFET	-100 V	32
SPD18P06P	Planar MOSFET	-60 V	32
SPD30P06P	Planar MOSFET	-60 V	32
SPD35N10	Planar MOSFET	100 V	33
SPD50P03L G	OptiMOS®2	-30 V	32
SPI07N60C3	CoolMOS™CP	600 V	31
SPI07N60S5	CoolMOS™S5	600 V	31
SPI07N65C3	CoolMOS™C3	650 V	31
SPI08N50C3	CoolMOS™C3	500 V	31
SPI08N80C3	CoolMOS™C3	800 V	31
SPI11N60C3	CoolMOS™C3	600 V	31
SPI11N60S5	CoolMOS™S5	600 V	31
SPI11N65C3	CoolMOS™C3	650 V	31
SPI12N50C3	CoolMOS™C3	500 V	31
SPI15N60C3	CoolMOS™C3	600 V	31
SPI16N50C3	CoolMOS™C3	500 V	31
SPI20N60C3	CoolMOS™C3	600 V	31
SPI20N65C3	CoolMOS™C3	650 V	31
SPI21N50C3	CoolMOS™C3	500 V	31
SPN01N60C3	CoolMOS™C3	600 V	39
SPN02N60C3	CoolMOS™C3	600 V	39
SPN02N60S5	CoolMOS™S5	600 V	39
SPN03N60C3	CoolMOS™C3	600 V	39
SPN03N60S5	CoolMOS™S5	600 V	39
SPN04N60S5	CoolMOS™S5	600 V	39
SPP/B/I10N10	Planar MOSFET	100 V	29
SPP/B/I10N10L	Planar MOSFET	100 V	29
SPP/B/I21N10	Planar MOSFET	100 V	29
SPP/B/I35N10	Planar MOSFET	100 V	29
SPP/B/I47N10	Planar MOSFET	100 V	29
SPP/B/I80N10L	Planar MOSFET	100 V	25
SPP02N60C3	CoolMOS™C3	600 V	26
SPP02N60S5	CoolMOS™S5	600 V	26
SPP02N80C3	CoolMOS™C3	800 V	26
SPP03N60C3	CoolMOS™C3	600 V	26
SPP03N60S5	CoolMOS™S5	600 V	26
SPP04N50C3	CoolMOS™C3	500 V	25
SPP04N60C3	CoolMOS™C3	600 V	26
SPP04N60S5	CoolMOS™S5	600 V	26
SPP04N80C3	CoolMOS™C3	800 V	26
SPP06N60C3	CoolMOS™C3	600 V	26
SPP06N80C3	CoolMOS™C3	800 V	26
SPP07N60C3	CoolMOS™C3	600 V	26
SPP07N60CFD	CoolMOS™CFD	600 V	26
SPP07N60S5	CoolMOS™S5	600 V	26
SPP07N65C3	CoolMOS™C3	650 V	26
SPP08N50C3	CoolMOS™C3	500 V	25
SPP08N80C3	CoolMOS™C3	800 V	26
SPP08P06P	Planar MOSFET	-60 V	24
SPP11N60C3	CoolMOS™C3	600 V	26
SPP11N60CFD	CoolMOS™CFD	600 V	26
SPP11N60S5	CoolMOS™S5	600 V	26
SPP11N65C3	CoolMOS™C3	650 V	26
SPP11N80C3	CoolMOS™C3	800 V	26
SPP12N50C3	CoolMOS™C3	500 V	25
SPP15N60C3	CoolMOS™C3	600 V	26
SPP15N60CFD	CoolMOS™CFD	600 V	26
SPP15P10P G	Planar MOSFET	-100 V	24
SPP15P10PL G	Planar MOSFET	-100 V	24
SPP16N50C3	CoolMOS™C3	500 V	25
SPP17N80C3	CoolMOS™C3	800 V	26
SPP18P06P	Planar MOSFET	-60 V	24
SPP20N60C3	CoolMOS™C3	600 V	26
SPP20N60CFD	CoolMOS™CFD	600 V	26
SPP20N60S5	CoolMOS™S5	600 V	26
SPP20N65C3	CoolMOS™C3	650 V	26
SPP21N50C3	CoolMOS™C3	500 V	25
SPP24N60C3	CoolMOS™C3	600 V	26
SPP80P06P	Planar MOSFET	-60 V	24
SPS01N60C3	CoolMOS™C3	600 V	36
SPS02N50C3	CoolMOS™C3	500 V	36
SPS02N60C3	CoolMOS™C3	600 V	36
SPS03N50C3	CoolMOS™C3	500 V	36
SPS03N60C3	CoolMOS™C3	600 V	36
SPS04N50C3	CoolMOS™C3	500 V	36
SPS04N60C3	CoolMOS™C3	600 V	36
SPU01N60C3	CoolMOS™C3	600 V	35
SPU02N60C3	CoolMOS™C3	600 V	35
SPU02N60S5	CoolMOS™S5	600 V	35
SPU03N60C3	CoolMOS™C3	600 V	35
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SPU04N60C3	CoolMOS™C3	600 V	35
SPU04N60S5	CoolMOS™S5	600 V	35
SPU07N60S5	CoolMOS™S5	600 V	35
SPU08P06P	Planar MOSFET	-60 V	35
SPU09P06P	Planar MOSFET	-60 V	35
SPU18P06P	Planar MOSFET	-60 V	35
SPU30P06P	Planar MOSFET	-60 V	35
SPW11N60C3	CoolMOS™C3	600 V	23
SPW11N60CFD	CoolMOS™CFD	600 V	23
SPW11N60S5	CoolMOS™S5	600 V	23
SPW11N80C3	CoolMOS™C3	800 V	23
SPW12N50C3	CoolMOS™C3	500 V	23
SPW15N60C3	CoolMOS™C3	600 V	23
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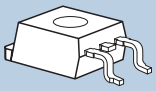
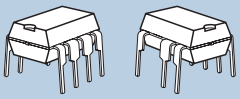
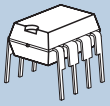
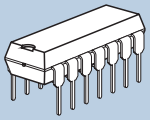
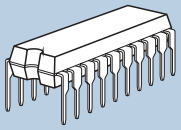
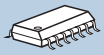
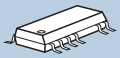
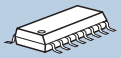
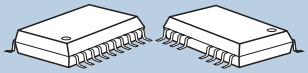
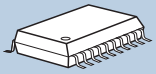
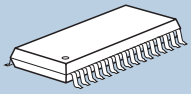
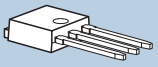
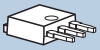
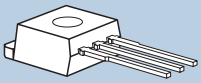
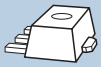
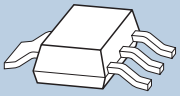
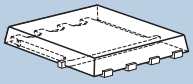
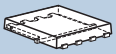
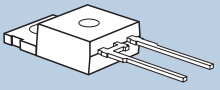
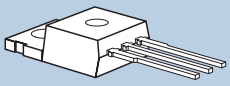
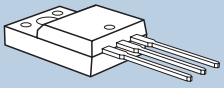
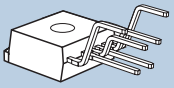
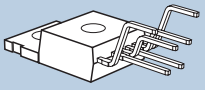
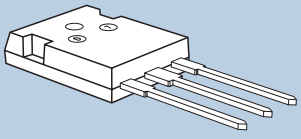
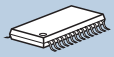
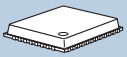
SPW20N60S5	CoolMOS™S5	600 V	23
SPW21N50C3	CoolMOS™C3	500 V	23
SPW24N60C3	CoolMOS™C3	600 V	23
SPW24N60CFD	CoolMOS™CFD	600 V	23
SPW32N50C3	CoolMOS™C3	500 V	23
SPW35N60C3	CoolMOS™C3	600 V	23
SPW35N60CFD	CoolMOS™CFD	600 V	23
SPW47N60C3	CoolMOS™C3	600 V	23
SPW47N60CFD	CoolMOS™CFD	600 V	23
SPW52N50C3	CoolMOS™C3	500 V	23

Package Overview

D-PAK (TO252) 	Reverse D-PAK (Reverse TO252) 	D^2-PAK (TO263) 	DIP-7 
DIP-8 	DIP-14 	DIP-20 	SO-8 
SO-14 	SO-16/12 	SO-16 	SO-18 
SO-20 	SO-32 	I-PAK (TO251) 	I-PAK Short Leads (TO251 SL) 
I^2-PAK (TO262) 	SC59 	SC75 	SOT23 
SOT89 	SOT223 	SOT323 	SOT363 
SuperSO8 	S308 	TSOP6 	TO220 (2-leg) 
TO220 (3-leg) 	TO220 FullPAK 	TO220-6-46 	TO220-6-47 
TO247 	TSSOP-28 	VQFN-40 	

INFINEON TECHNOLOGIES SALES OFFICES WORLDWIDE*

(COUNTRY/AREA)

Australia
Infineon Technologies Australia Pty. Ltd.
885 Mountain Highway
Bayswater, Victoria 3153
☎ (+61) 3-97 21 88 88
Fax (+61) 3-97 21 88 08

Austria
Infineon Technologies Austria AG
Production / Development Center
Siemensstraße 2
9500 Villach
☎ (+43) 5 17 77 0
Fax (+43) 5 17 77 35 01

Infineon Technologies Austria AG
Operngasse 20 B / 31
1040 Wien
☎ (+43) 0-51 77 71 11 00
Fax (+43) 0-51 77 71 15 00

Belgium/Luxembourg
Netherlands
Infineon Technologies Holding B.V.
Generaal
Lemanstraat 67
2018 Antwerpen
☎ (+31) 10-2 17 68 00
Fax (+31) 10-2 17 68 19

Infineon Technologies Holding B.V.
Westblaak 32
3012 KM Rotterdam
☎ (+31) 10 21 768 00
Fax (+31) 10 21 768 19

Brazil
Infineon Technologies
South America Ltda.
Avenida Ermano Marchetti,
1435 - 4° andar
05038-001 Água Branca
São Paulo
☎ (+55) 11-38 17 28 00
Fax (+55) 11-38 17 28 10

Canada
Infineon Technologies
North America Corp.
340 March Road, Suite 301
Kanata, Ontario K2K 2E2
☎ (+1) 8 66-9 51 95 19 51
Fax (+1) 6 13-5 91 89 54

China
Infineon Technologies
Center of Competence (Shanghai) Co., Ltd.
12th Floor, Quantum Plaza
No.27 Zhi Chun Road
Haidian District
Beijing 100083
☎ (+86) 10-82 35 61 18
Fax (+86) 10-82 35 54 74

Infineon Technologies
Hong Kong Ltd.
Suite 302, Level 3 Festival Walk
80 Tat Chee Avenue
Kowloon Tong,
Hong Kong
☎ (+8 52) 28-32 05 00
Fax (+8 52) 28-27 97 62

Infineon Technologies
International Trade (Shanghai) Co., Ltd.
No. 7 & 8, Lane 647, Song Tao Road
Zhang Jian Hi-Tech Park
Shanghai 201203
☎ (+86) 21-61 01 90 00
Fax (+86) 21-50 80 62 04

Infineon Technologies
International Trade (Shanghai) Co., Ltd.
Room 1502, Block A
Tian An International Building
Renmin Nan Road
Shenzhen 518 001
☎ (+86) 7 55-82 28 91 04
Fax (+86) 7 55-82 28 02 17

Infineon Technologies
Taiwan Co., Ltd.
12F-1, No. 3-2 Yuan Qu Street,
Nan Kang District
Taipei 115
☎ (+8 86) 2-26 55 75 00
Fax (+8 86) 2-2 65 57 50 18

Denmark
Infineon Technologies Nordic AB
Herlev Hovedgade 201A
2730 Herlev
☎ (+45) 44-50 77 00
Fax (+45) 44-50 77 01

Finland
Infineon Technologies Nordic AB
Visitor's Address Upseerinkatu 1
P.O. Box 276
02601 Espoo
☎ (+3 58) 10-6 80 84 00
Fax (+3 58) 10-6 80 84 01

France
Infineon Technologies France S.A.S.
Centre de vie Agora – Bat. A2
Z.I. des Paluds
13400 Aubagne
☎ (+33) 44-2 82 46 10
Fax (+33) 44-2 82 46 18

Infineon Technologies France S.A.S
Burolines 2
2 ter, rue Marcel Doret
31700 Blagnac
☎ (+33) 5-34 55 13 30
Fax (+33) 5-34 55 13 34

Infineon Technologies France S.A.S.
39-47, Boulevard Ornano
93527 Saint-Denis CEDEX 2
☎ (+33) 1-48 09 72 00
Fax (+33) 1-48 09 72 90

Germany
Comneon GmbH & Co. KG
Südwestpark 2-4
90449 Nuremberg
☎ (+49) 9 11 37 88 0
Fax (+49) 9 11 37 88 10 00

Hitex Development Tools GmbH
Greschbachstraße 12
76229 Karlsruhe
☎ (+49) 72 19 62 80
Fax (+49) 72 19 62 81 89

Infineon Technologies AG
Siemensstraße 31-33
71254 Ditzingen / Stuttgart
☎ (+49) 71 56-17 91 90
Fax (+49) 71 56-1 79 19 90

Infineon Technologies AG
Düsseldorfer Landstraße 401,
47259 Duisburg
☎ (+49) 20 3-7 29 87 11
Fax (+49) 20 3-7 29 87 60

Infineon Technologies AG
Naegelsbacherstraße 26
91052 Erlangen
☎ (+49) 91 31-97 00 10
Fax (+49) 91 31-9 70 01 99

Infineon Technologies AG
Lindenplatz 2
20099 Hamburg
☎ (+49) 40-23 51 94 74
Fax (+49) 40-23 51 94 75

Infineon Technologies AG
Paderborner Straße 1
30539 Hannover
☎ (+49) 5 11-8 76 56 20
Fax (+49) 5 11-87 65 62 90

Infineon Technologies AG
Am Campeon 1-12
85579 Neubiberg
☎ (+49) 89-23 40
Fax (+49) 89-23 42 46 94

Infineon Technologies AG
Südwestpark 65
90449 Nuremberg
☎ (+49) 9 11-25 29 30
Fax (+49) 9 11-2 52 93 93

Infineon Technologies AG
Max-Planck-Straße 5
59581 Warstein
☎ (+49) 29 02-7 64 - 0
Fax (+49) 29 02-7 64 - 12 56

Hungary
Infineon Technologies Cegléd Kft.
Gizella u. 51-57
1143 Budapest
☎ (+36) 14 71 28 24
Fax (+36) 14 71 28 25

India
Infineon Technologies
India Pvt. Ltd.
13th Floor, Discoverer Building
International Technology Park
Whitefield Road
Bangalore 560 066
☎ (+91) 80-51 39 20 00
Fax (+91) 80-51 39 23 33

Iran
Siemens SSK
No. 32 Taleghani Ave.
15875-4773 Teheran
☎ (+98) 2 16 14 23 17
Fax (+98) 2 16 46 30 60

Ireland
Infineon Technologies Ireland Ltd.
69 Fitzwilliam Lane
Dublin 2
☎ (+3 53) 1-7 99 95 00
Fax (+3 53) 1-7 99 95 01

Israel
Nisko Ltd.
2 A, Habarzel Street
Tel Aviv 69710
☎ (+9 72) 3-7 65 73 00
Fax (+9 72) 3-7 65 73 33

Italy
Infineon Technologies Italia S.r.l.
Via Vipiteno, 4
20128 Milano
☎ (+39) 02-25 20 41
Fax (+39) 02-2 52 04 43 95

Japan
Infineon Technologies Japan K.K.
Maruyama Nissei Building 14F
2-14-21 Nishiki, Naka-ku
Nagoya-shi, Aichi 460-0003
☎ (+81) 52-2 23 15 70
Fax (+81) 52-2 23 14 61

Infineon Technologies Japan K.K.
ORIX-Dojima Building 8F
2-1-31, Dojima, Kita-ku
Osaka-shi,
Osaka 530-0003
☎ (+81) 6-47 97 44 60
Fax (+81) 6-47 97 44 62

Infineon Technologies Japan K.K.
Gate City Osaki, East Tower
21Fl / 22Fl / 23Fl
1-11-2 Osaki
Shinagawa-ku
Tokyo 141-0032
☎ (+81) 3 57 45 71 00
Fax (+81) 3 57 45 74 10

Korea
Infineon Technologies Korea Co., Ltd.
4th Floor Sigma Tower
7-19 Shincheon-dong Songpa-gu
Seoul 138-734
☎ (+82) 2-34 60 09 00
Fax (+82) 2-34 60 09 01

Mexico
Everest Sales & Solutions
Av. Manuel Acunia 2674-101
Col. Ladron de Guevara
44680 Guadalajara, J. AL
☎ (+52) 33-36 42 21 01
Fax (+52) 33-36 40 65 62

Poland
Siemens Sp. z.o.o.
Ul. Zupnicza 11
03-821 Warsaw
☎ (+48) 22-8 70 91 50
Fax (+48) 22-8 70 91 59

Puerto Rico
Klamco Electronics
527 Street QH No. 1
Country Club
Carolina, PR 00982
☎ (+17 87) 257 79 22
Fax (+17 87) 257 79 61

Russia
Infineon Technologies RUSS LLC
Leninsky prospect 113 / 1
117 198 Moscow
☎ (+7) 4 95-9 56 51 95
Fax (+7) 4 95-9 56 51 95

Singapore
Infineon Technologies Asia
Pacific Pte. Ltd.
8 Kallang Sector
Singapore 349 282
☎ (+65) 68-76 28 88
Fax (+65) 68-76 31 22

South Africa
Siemens Components
P.O. Box 3438
Halfway House 1680
2146 Sandton
☎ (+27) 11-6 52 20 00
Fax (+27) 11-6 52 26 14

Spain
Siemens, S.A.
División de Componentes
Ronda de Europa, 5
28760 Tres Cantos-Madrid
☎ (+34) 91-5 14 71 55
Fax (+34) 91-5 14 70 14

Sweden
Infineon Technologies Sweden AB
Isafjordsgatan 16
164 81 Kista
☎ (+46) 8-7 57 50 00
Fax (+46) 8-7 57 46 12

Switzerland
Infineon Technologies
Schweiz AG
Badener Strasse 623
P.O. Box 1570
8048 Zürich
☎ (+41) 1-4 97 80 40
Fax (+41) 1-4 97 80 50

Turkey
Siemens Sanayi ve Ticaret A.S.
Yakacik Yolu No. 111
34861 Kartal, Istanbul
☎ (+90) 2 16-4 59 28 51
Fax (+90) 2 16-4 59 28 51

United Kingdom
Infineon Technologies UK Ltd.
Suite S7, Phoenix House
Strathclyde Business Park
Bellshill ML4 3NJ
☎ (+44) 16 98 50 10 53
Fax (+44) 16 98 50 10 51

Infineon Technologies UK Ltd.
Infineon House
Fleet Mill
Minley Road
Fleet, Hampshire GU51 2RD
☎ (+44) 12-52 77 22 00
Fax (+44) 12-52 77 22 01

U.S.A.
Infineon Technologies
North America Corp.
2529 Commerce Drive, Suite H
Kokomo, IN 46902
☎ (+1) 7 65-4 56 19 28
Fax (+1) 7 65-4 56 38 36

Infineon Technologies
Industrial Power, Inc.
1050 Route 22
Lebanon, NJ 08833
☎ (+1) 9 08-23 6 56 - 21
Fax (+1) 9 08-2 36 56 - 20

Infineon Technologies
North America Corp.
19111 Victor Parkway
Livonia, MI 48150
☎ (+1) 734-7 79 50 00
Fax (+1) 734-7 79 50 01

Infineon Technologies
North America Corp.
12770 High Bluff Drive, Suite 100
San Diego, CA 92130
☎ (+1) 85 85 09 21 60
Fax (+1) 85 85 09 21 61

Infineon Technologies
North America Corp.
1730 North First Street
San José, CA 95112
☎ (+1) 4 08-5 01 60 00
Fax (+1) 4 08-5 01 24 24

Infineon Technologies
North America Corp.
1901 N. Roselle Road, Suite 1020
Schaumburg, IL 60195
☎ (+1) 8 47-8 84 70 09
Fax (+1) 8 47-8 84 75 99

* and representative offices

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