

SURFACE MOUNT SILICON SCHOTTKY DIODES



The following configurations are available:

CMPSH-3 CMPSH-3A CMPSH-3C CMPSH-3S	DUAL, COMMON CATHODE	MARKING C MARKING C MARKING C MARKING C	ODE: DB	1 2	
MAXIMUM RA	ATINGS: (T <sub>A</sub> =25°C)	SYMBOL			UNITS
Peak Repetitive Reverse Voltage		V <sub>RRM</sub>	3	0	V
Continuous Fo	prward Current	١ <sub>F</sub>	1(	00	mA
Peak Repetitiv	ve Forward Current	IFRM	35	50	mA
Peak Forward	Surge Current, tp=10ms	IFSM	75	50	mA
Power Dissipation		PD	35	50	mW
Operating and Storage Junction Temperature		т <sub>Ј</sub> , Т <sub>stg</sub>	-65 to +150		°C
Thermal Resis	stance	Θ <sub>JA</sub> 357		°C/W	
ELECTRICAL SYMBOL	CHARACTERISTICS PER DIODE: ( TEST CONDITIONS	(T <sub>A</sub> =25°C unless MIN	TYP	MAX	UNITS
IR	V <sub>R</sub> =25V		90	500	nA
IR	V <sub>R</sub> =25V, T <sub>A</sub> =100°C		25	100	μA
BVR	Ι <sub>R</sub> =100μΑ	30			V
V <sub>F</sub>	I <sub>F</sub> =2.0mA		0.29	0.33	V
V <sub>F</sub>	I <sub>F</sub> =15mA		0.37	0.45	V
VF	I <sub>F</sub> =100mA		0.51	1.00	V
СЈ	V <sub>R</sub> =0, f=1.0MHz			20	pF
t <sub>rr</sub>	$I_F = I_R = 10 \text{mA}, I_{rr} = 1.0 \text{mA}, R_L = 100 \Omega$			5.0	ns

Central Semiconductor Corp.

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# DESCRIPTION:

The CENTRAL SEMICONDUCTOR CMPSH-3 series devices are silicon Schottky diodes designed for surface mount fast switching applications requiring a low forward voltage drop.

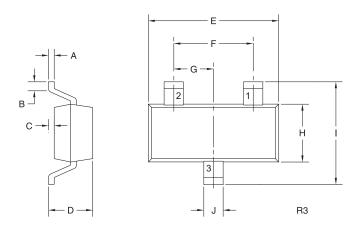
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CMPSH-3 CMPSH-3A CMPSH-3C CMPSH-3S

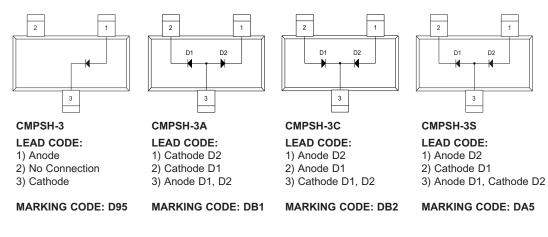
## SURFACE MOUNT SILICON SCHOTTKY DIODES

## SOT-23 CASE - MECHANICAL OUTLINE



DIMENSIONS								
	INCHES		MILLIMETERS					
SYMBOL	MIN	MAX	MIN	MAX				
А	0.003	0.007	0.08	0.18				
В	0.006	-	0.15	-				
С	-	0.005	-	0.13				
D	0.035	0.043	0.89	1.09				
Е	0.110	0.120	2.80	3.05				
F	0.075		1.90					
G	0.037		0.95					
Н	0.047	0.055	1.19	1.40				
	0.083	0.098	2.10	2.49				
J	0.014	0.020	0.35	0.50				
SOT-23 (REV: R3)								

**PIN CONFIGURATIONS** 



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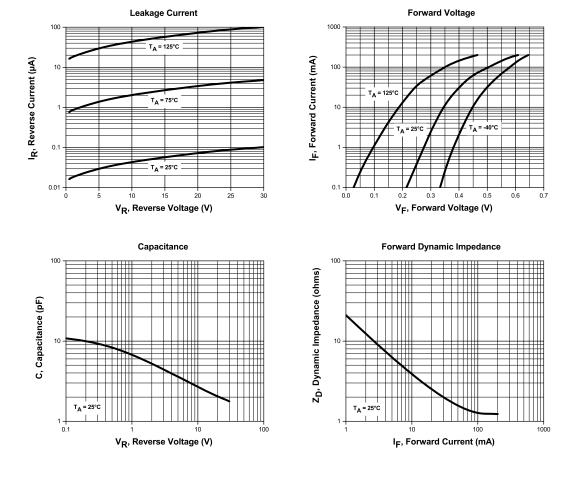


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CMPSH-3A CMPSH-3C CMPSH-3S

CMPSH-3

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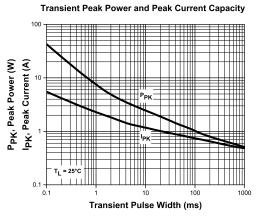


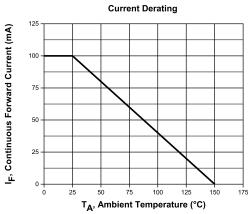
# TYPICAL ELECTRICAL CHARACTERISTICS

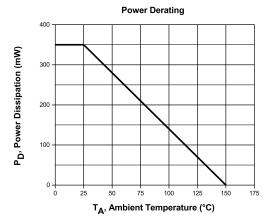
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CMPSH-3 CMPSH-3A CMPSH-3C **CMPSH-3S** SURFACE MOUNT SILICON SCHOTTKY DIODES







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**TYPICAL ELECTRICAL CHARACTERISTICS** 

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# OUTSTANDING SUPPORT AND SUPERIOR SERVICES



## PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- Consolidated shipping options

# DESIGNER SUPPORT/SERVICES

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities

Special wafer diffusions

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

· Custom bar coding for shipments

Custom product and package development

# REQUESTING PRODUCT PLATING

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- 2. If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

# CONTACT US

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