Obsolete

·M·C·C·™

Micro Commercial Components

RoHS COMPLIANT

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1N4454

400mW 75 Volt Silicon Epitaxial Diode

Features

- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Low Current Leakage
- Compression Bond Construction
- Low Cost
- Marking : Cathode band and type number
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Temperature: -55°C to +150°C
- Storage Temperature: -55°C to +150°C
- Maximum Thermal Resistance; 400K/W Junction To Ambient

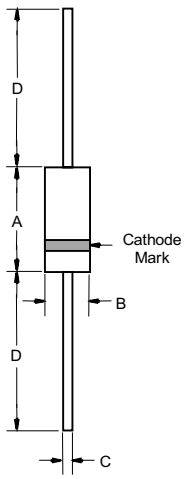
Electrical Characteristics @ 25°C Unless Otherwise Specified

Reverse Voltage	V_R	50V	
Peak Reverse Voltage	V_{RM}	75V	
Average Rectified Current	I_O	150mA	Resistive Load f > 50Hz
Power Dissipation	P_{TOT}	400mW	
Maximum Junction Temperature	T_J	150°C	
Peak Forward Surge Current	I_{FSM}	400mA	8.3ms, half sine
Maximum Instantaneous Forward Voltage	V_F	1.0V	I_{FM} = 10mA; T_J = 25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I_R	100nA	V_R=50Volts T_J = 25°C
Typical Junction Capacitance	C_J	4.0pF	Measured at 1.0MHz, V_R=4.0V
Reverse Recovery Time	T_{rr}	4.0nS	I_F=10mA V_R = 6V R_L=100Ω

*Pulse test: Pulse width 300 µsec, Duty cycle 2%

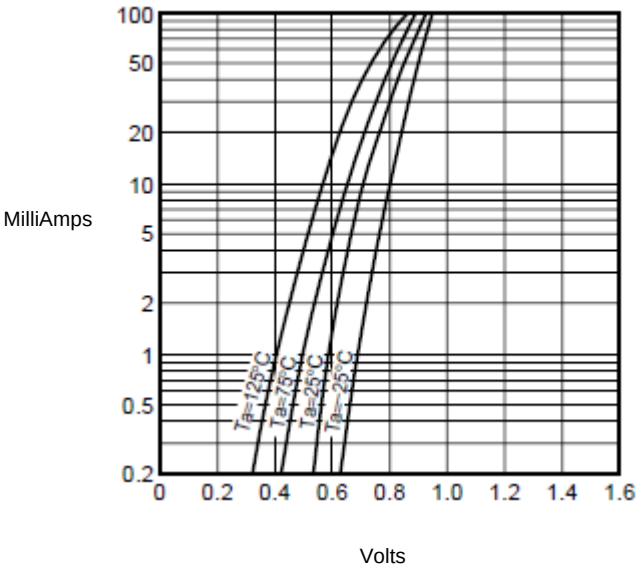
Note: 1. Lead in Glass Exemption Applied, see EU Directive Annex 7(C)-I.

DO-35



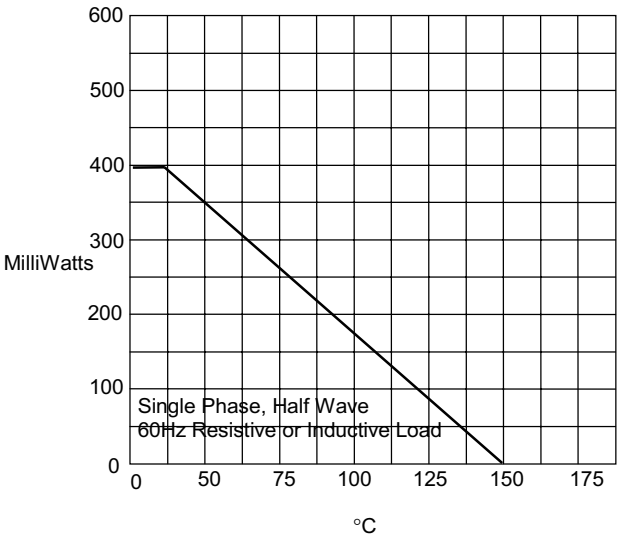
DIMENSIONS					
	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE
A	---	.166	---	4.2	
B	---	.079	---	2.00	
C	---	.020	---	.52	
D	1.000	---	25.40	---	

Figure 1
Typical Forward Characteristics



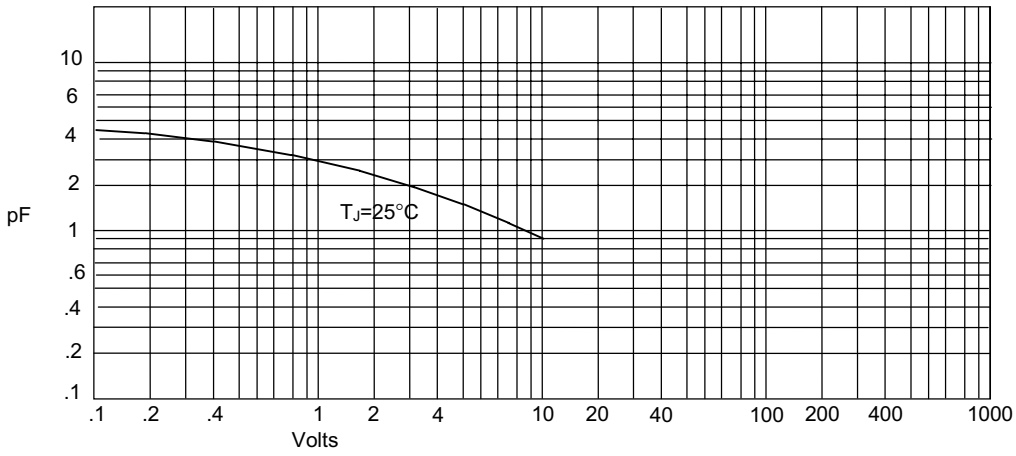
Instantaneous Forward Current - MilliAmperes *versus*
Instantaneous Forward Voltage - Volts

Figure 2
Forward Derating Curve



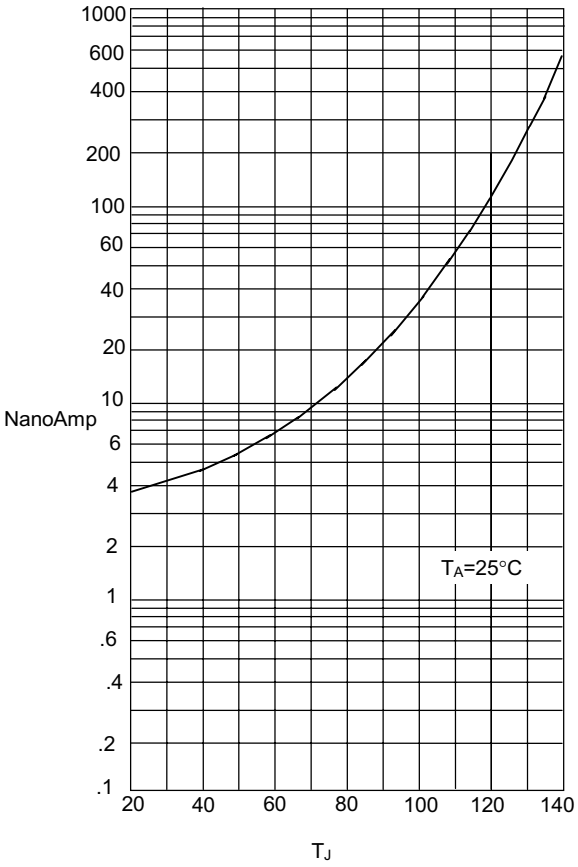
Admissable Power Dissipation - MilliWatts *versus*
Ambient Temperature - °C

Figure 3
Junction Capacitance



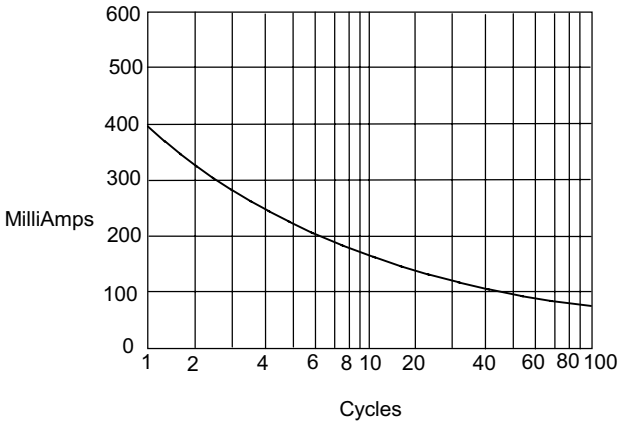
Junction Capacitance - pF *versus*
Reverse Voltage - Volts

Figure 4
Typical Reverse Characteristics



Instantaneous Reverse Leakage Current - NanoAmperes *versus*
Junction Temperature - °C

Figure 5
Peak Forward Surge Current



Peak Forward Surge Current - Amperes *versus*
Number Of Cycles At 60Hz - Cycles

Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel
Part Number-AP	Ammo Packing: 5Kpcs/AmmoBox
Part Number-BP	Bulk: 100Kpcs/Carton