

## **Features**

- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix Designates Compliant. See Ordering Information)
- Low Power Loss For High Efficiency
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Guard Ring Protection

# 1.0 Amp Schottky Barrier Rectifier 20 to 40 Volts

# **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +125°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 80°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
SR102	SR102	20V	14V	20V
SR103	SR103	30V	21V	30V
SR104	SR104	40V	28V	40V

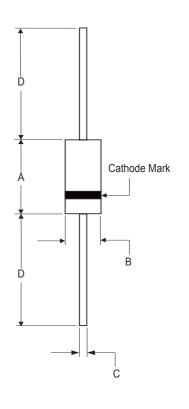
# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	1.0A	T <sub>A</sub> = 90°C
Peak Forward Surge Current	I <sub>FSM</sub>	25A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage SR102 SR103 SR104	V <sub>F</sub>	0.45V 0.55V 0.60V	I <sub>FM</sub> =1.0A; T <sub>J</sub> =25°C*
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA	T <sub>J</sub> =25ºC;

<sup>\*</sup>Pulse test: Pulse width 300 µsec, Duty cycle 2%

Note: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.





DIMENSIONS								
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.160	0.205	4.10	5.20				
В	0.080	0.107	2.00	2.70	Ф			
С	0.028	0.035	0.71	0.90	Ф			
D	1.000		25.40					



## **Curve Characteristics**

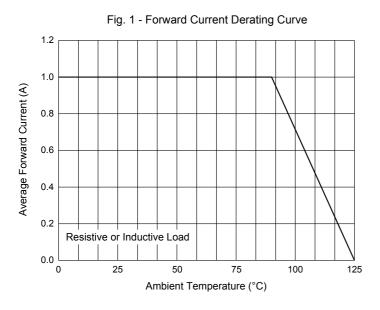


Fig. 3 - Typical Instantaneous Forward Characteristics

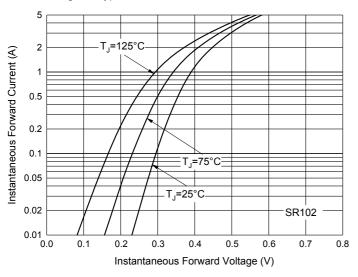


Fig. 5 - Typical Reverse Leakage Characteristics

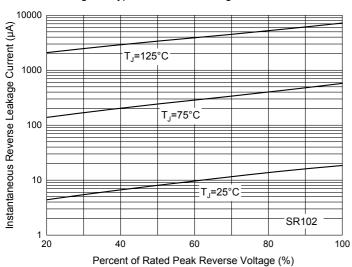


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

25
20
48.3 ms Single Half Sine-Wave
0
1 10 100
Number of Cycles at 60 Hz

Fig. 4 - Typical Instantaneous Forward Characteristics

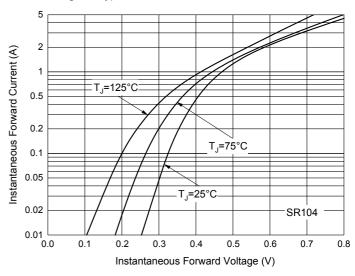
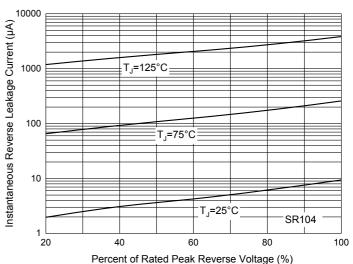


Fig. 6 - Typical Reverse Leakage Characteristics





# **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel:5Kpcs/Reel		
Part Number-AP	Ammo Packing:5Kpcs/Ammo Box		
Part Number-BP	Bulk: 50Kpcs/Carton		

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