

#### **Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Low Forward Voltage Drop
- High Current Capability
- High Junction Temperature Capability
- Epoxy Meets UL 94 V-0 Flammability Rating

# 5 Amp Schottky Barrier Rectifier 100 Volts

# **Maximum Ratings**

Operating Junction Temperature Range: -50°C to +175°C

• Storage Temperature Range: -50°C to +175°C

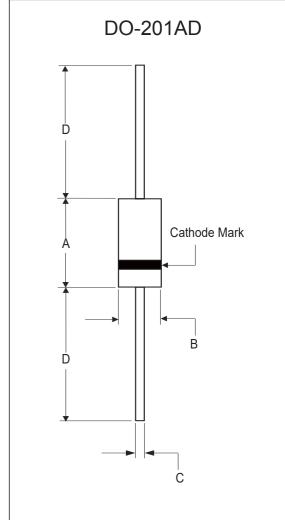
• Maximum Thermal Resistance: 18°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum	Maximum DC Blocking Voltage
SR5010H	SR5010H	100V	70V	100V

# Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	5.0A	T <sub>L</sub> =100°C	
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms,Half Sine	
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.8V	I <sub>FM</sub> =5.0A; T <sub>J</sub> =25°C	
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	20μA 10mA	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	
Typical Junction Capacitance	CJ	200pF	Measured at 1.0MHz, V <sub>R</sub> =4.0V	

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



	DIMENSIONS					
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.287	0.374	7.30	9.50		
В	0.189	0.208	4.80	5.30		
С	0.048	0.052	1.20	1.30		
D	1.000		25.40			

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## **Curve Characteristics**

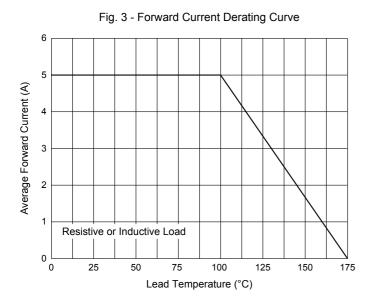


Fig. 3 - Typical Instantaneous Forward Characteristics

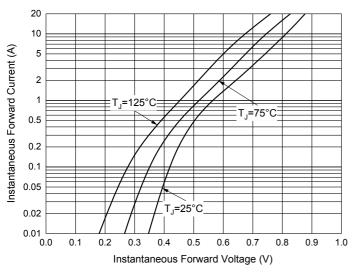


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

175

150

150

125

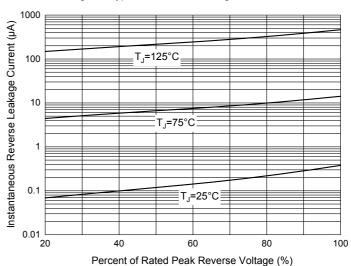
100

25

8.3 ms Single Half Sine-Wave
0
1 10 100

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





## **Ordering Information**

Device	Packing		
Part Number-TP	Tape&Reel: 1.2Kpcs/Reel		
Part Number-AP	Ammo Packing: 1.2Kpcs/Ammo Box		
Part Number-BP	Bulk:500pcs/Box,12Kpcs/Carton		

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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