

### Features

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

### Maximum Ratings

- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Maximum Thermal Resistance: 35°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
SR208	SR208	80V	56V	80V
SR2010	SR2010	100V	70V	100V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

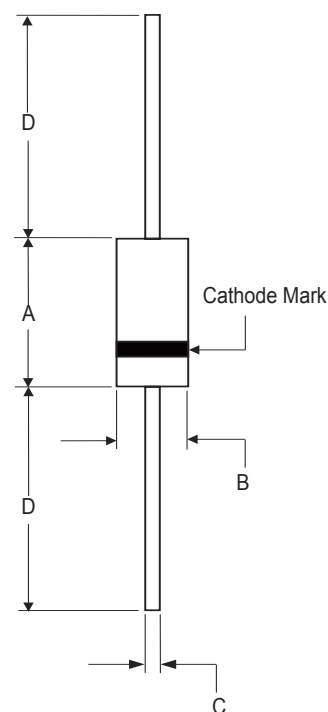
Average Forward Current	$I_{F(AV)}$	2.0A	$T_A = 75^\circ\text{C}$
Maximum Surge Current	$I_{FSM}$	50A	8.3ms, Half Sine
Max Peak Forward Voltage	$V_{FM}$	0.85V	$I_{FM}=2.0A;$ $T_J=25^\circ\text{C}^*$
Max Peak Reverse Current	$I_{RM}$	0.01mA	$V_{RRM}, T_J=25^\circ\text{C};$
Typical Junction Capacitance	$C_J$	170pF	$V_R = 4.0V$ $f = 1.0\text{MHz}$

\*Pulse test: Pulse width 300  $\mu\text{sec}$ , Duty cycle 2%

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

## 2.0 Amp Schottky Barrier Rectifier 80 to 100 Volts

### DO-41



#### DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.160	0.205	4.10	5.20	
B	0.080	0.107	2.00	2.70	$\Phi$
C	0.028	0.035	0.71	0.90	$\Phi$
D	1.000	-----	25.40	-----	

## Curve Characteristics

Fig. 1 - Forward Current Derating Curve

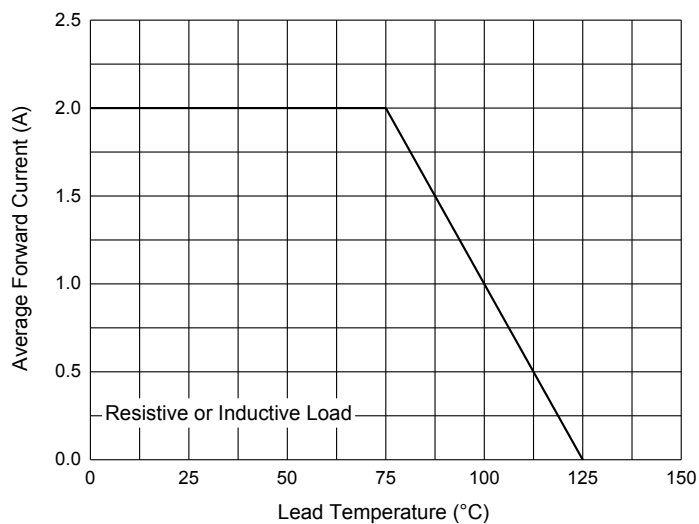


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

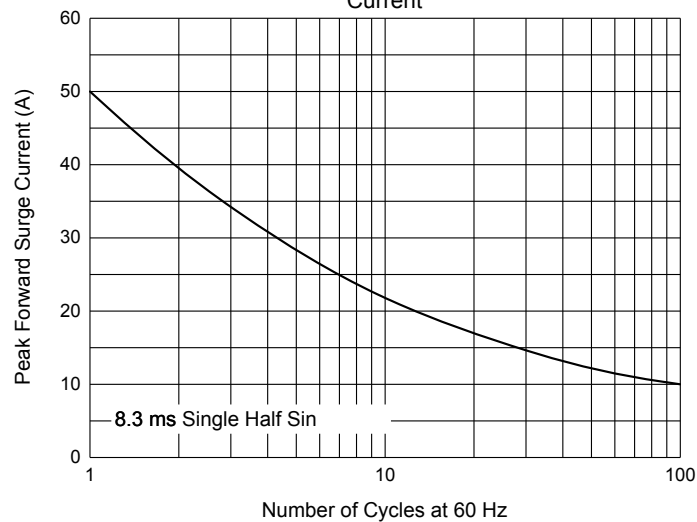


Fig. 3 - Typical Instantaneous Forward Characteristics

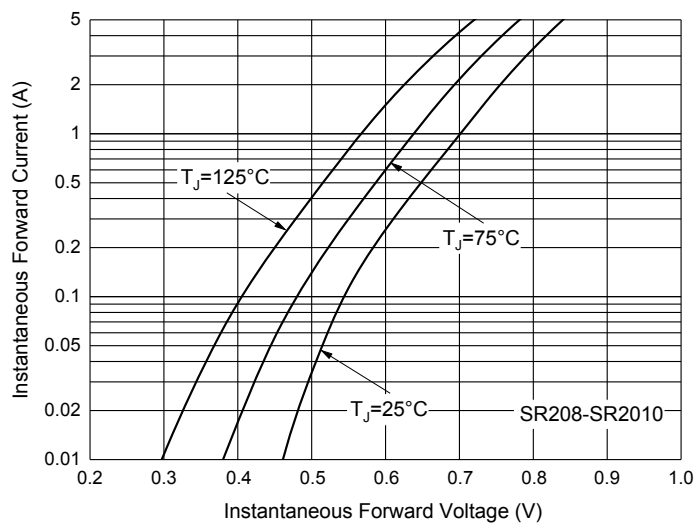
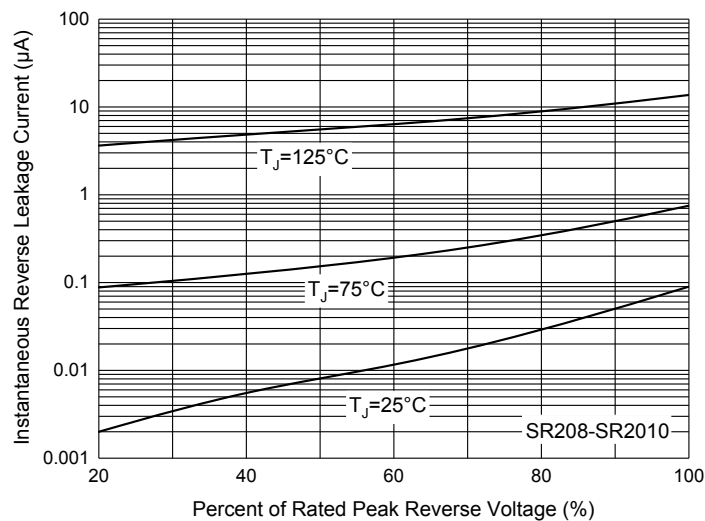


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel: 5Kpcs/Reel
(Part Number)-AP	Ammo Packing: 5Kpcs/Ammo Box
(Part Number)-BP	Bulk: 1Kpcs/Box, 50Kpcs/Carton

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

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