

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Efficiency
- Low Reverse Leakage
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistance: 1.0°C/W Junction to Case

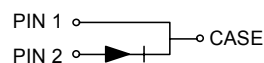
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR10100A	MUR10100A	1000V	700V	1000V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	$I_{F(AV)}$	10A	$T_C=125^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	110A	8.3ms, Half Sine Wave
Maximum Instantaneous Forward Voltage	V_F	2.0V(Typ) 2.4V(Max) 2.0V(Max)	$I_F=10\text{A}; T_J=25^\circ\text{C}$ $I_F=10\text{A}; T_J=25^\circ\text{C}$ $I_F=10\text{A}; T_J=125^\circ\text{C}$
Maximum Reverse Current At Rated DC Blocking Voltage	I_R	0.01mA 0.2mA	$T_J=25^\circ\text{C};$ $T_J=125^\circ\text{C}$
Maximum Reverse Recovery Time	T_{RR}	65ns	$I_F=0.5\text{A}; I_R=1.0\text{A};$ $I_{RR}=0.25\text{A}$

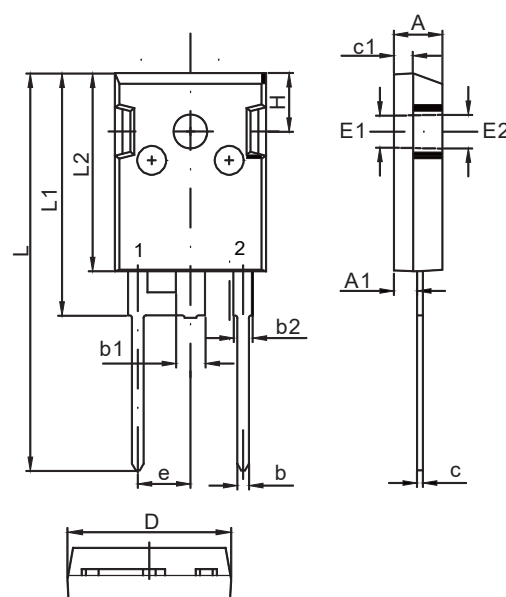
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

Internal Structure



10 Amp Super Fast Recovery Rectifier 1000 Volts

TO-247AC



DIMENSIONS

DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.185	0.209	4.70	5.30	
A1	0.087	0.102	2.20	2.60	
b	0.035	0.059	0.90	1.50	
b1	0.110	0.126	2.80	3.20	
b2	0.067	0.090	1.70	2.30	
c	0.020	0.028	0.50	0.70	
c1	0.071	0.087	1.80	2.20	
D	0.602	0.626	15.30	15.90	
E1	0.138	REF	3.500	REF	
E2	0.142	REF	3.600	REF	
L	1.583	1.646	40.20	41.80	
L1	0.976	0.988	24.80	25.10	
L2	0.799	0.811	20.30	20.60	
e	0.215	TYP	5.450	TYP	
H	0.236	REF	6.000	REF	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

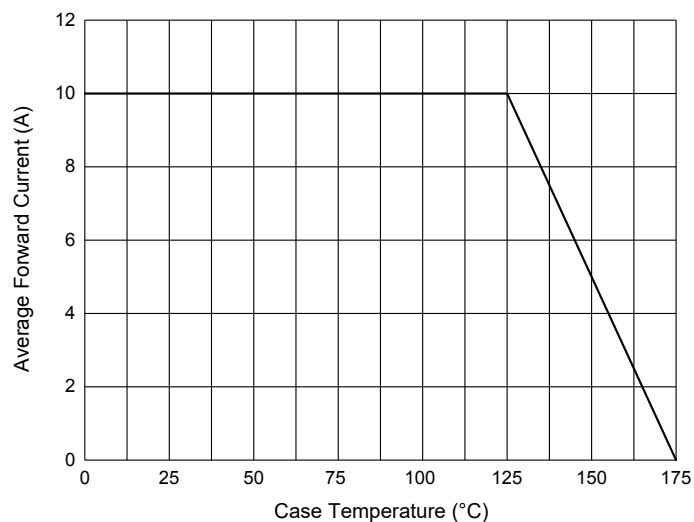


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

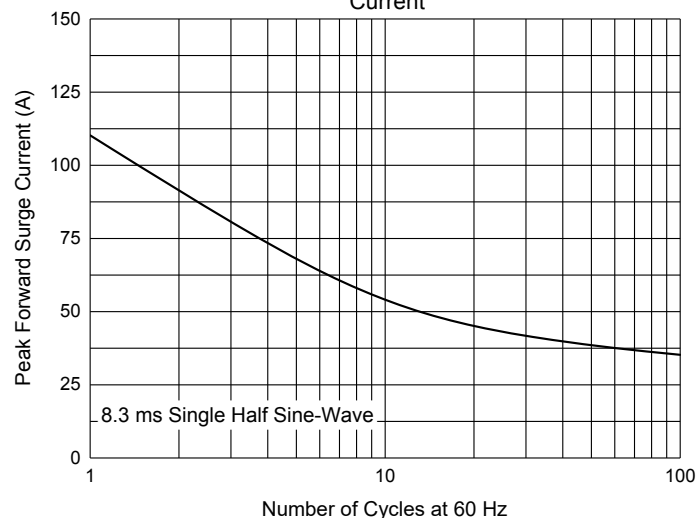


Fig. 3 - Typical Instantaneous Forward Characteristics

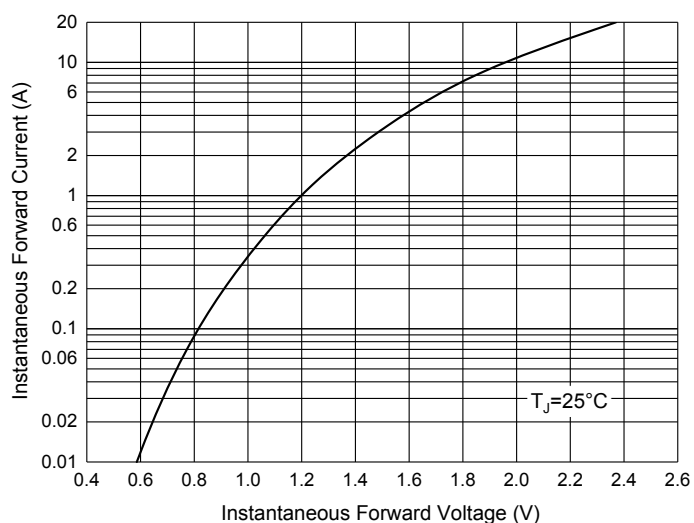
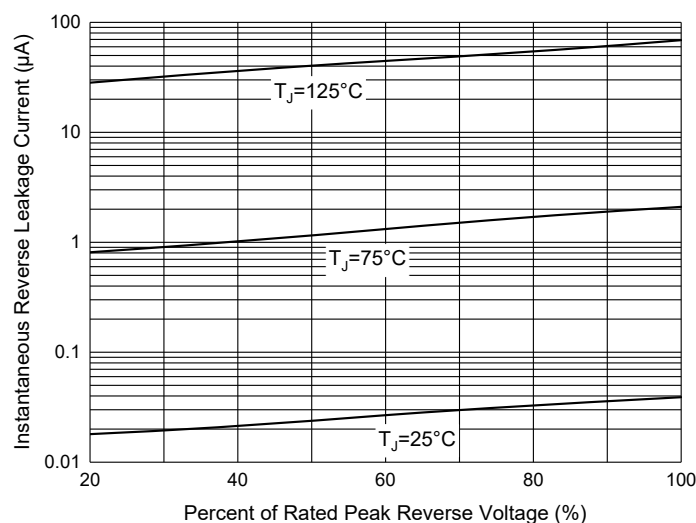


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Tube:30pcs/Tube, 360pcs/Box,1.8K/Ctn;

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

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