

Features

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

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2.0°C/W Junction to Case

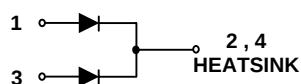
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRJL30100CT	MBRJL30100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	$I_{F(AV)}$	30A	$T_C=110^\circ\text{C}$
Peak Forward Surge Current	I_{FSM}	200A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage	V_F	0.71V(Typ) 0.77V(Max) 0.66V(Max)	$I_F=15A; T_J=25^\circ\text{C}$ $I_F=15A; T_J=25^\circ\text{C}$ $I_F=15A; T_J=125^\circ\text{C}$
Maximum Reverse Current at Rated DC Blocking Voltage	I_R	50μA 10mA	$T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$

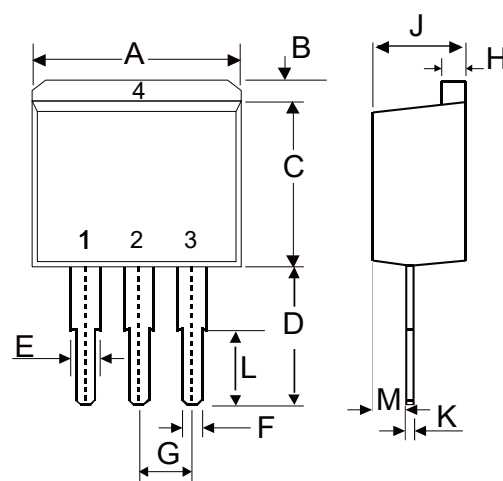
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

Internal Structure



30 Amp Low VF Schottky Barrier Rectifier 100 Volts

TO-262



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.394	0.402	10.00	10.20	
B	0.043	0.051	1.10	1.30	
C	0.339	0.346	8.60	8.80	
D	0.272	0.280	6.90	7.10	
E	0.047	0.051	1.20	1.30	
F	0.028	0.031	0.70	0.80	
G	0.100		2.54		
H	0.050	0.050	1.26	1.28	
J	0.177	0.185	4.50	4.70	
K	0.015	0.019	0.37	0.47	
L	0.114	0.122	2.90	3.10	
M	0.056	0.064	1.43	1.63	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

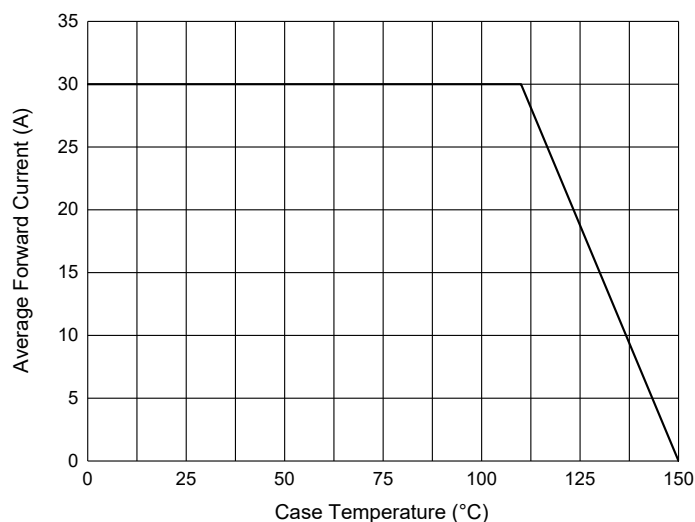


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

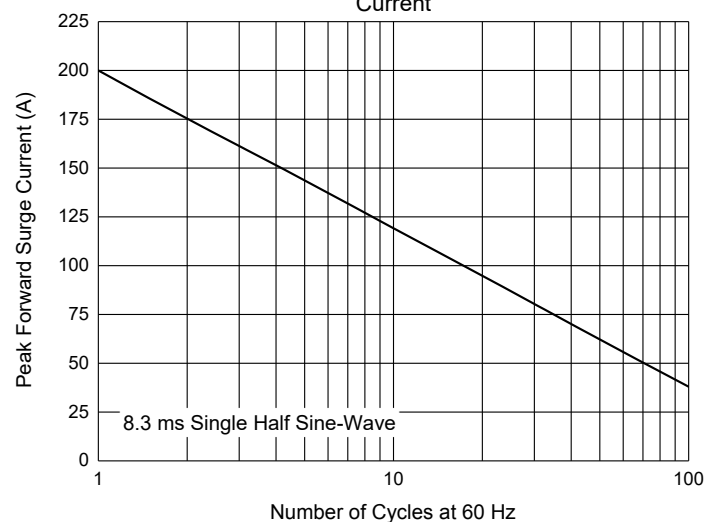


Fig. 3 - Typical Instantaneous Forward Characteristics

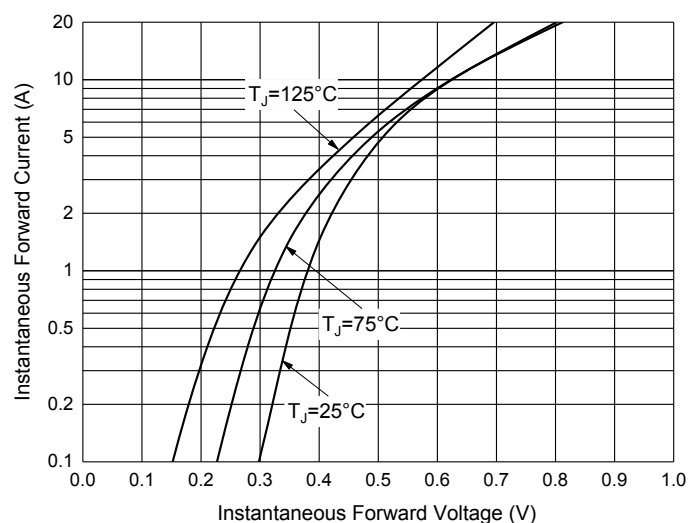
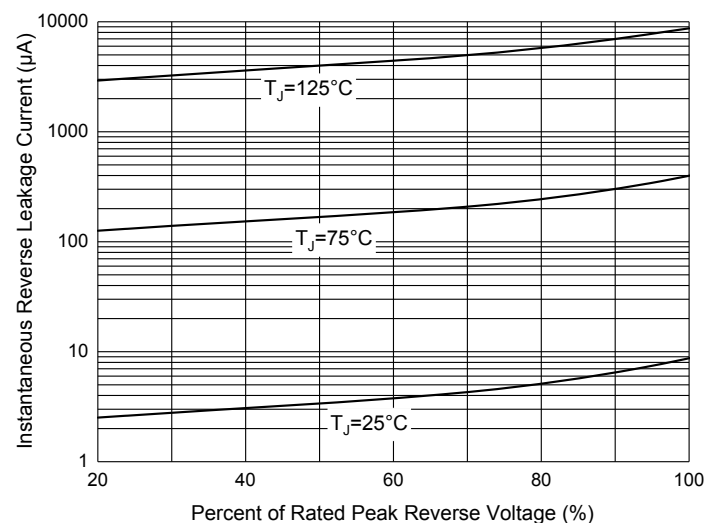


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BP	Tube:50pcs/Tube, 1000pcs/Box,5K/Ctn;

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

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