

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Metal of Silicon Rectifier, Majority Carrier Conduction
- Guard Ring For Transient Protection
- Low Power Loss and High Efficiency
- · High Surge Capacity, High Current Capability
- 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 +125°C
- Storage Temperature Range: -55°C to +150°C
- Mounting Torgue: 5 in-lbs Maximum

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR545	MBR545	45V	31.5V	45V

Electrical Characteristics @ 25°C Unless Otherwise Specified

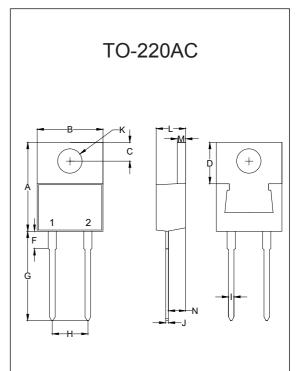
Average Forward Current	I _{F(AV)}	5A	T _C =95°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine
Maximum Forward Voltage Drop Per Element	V _F	0.60V	I _{FM} =5 Amper T _J =25°C (Note 2)
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.01mA 10mA	T _J =25°C; T _J =100°C
Typical Junction Capacitance	Сл	350pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure



5 Amp Schottky Barrier Rectifier 45 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
Dilvi	MIN	MAX	MIN	MAX	NOTE	
Α	0.560	0.625	14.22	15.88		
В	0.380	0.420	9.65	10.67		
С	0.100	0.135	2.54	3.43		
D	0.230	0.270	5.84	6.86		
F		0.250		6.35		
G	0.500	0.580	12.70	14.73		
Н	0.190	0.210	4.83	5.33		
I	0.020	0.045	0.51	1.14		
J	0.012	0.025	0.30	0.64		
K	0.139	0.161	3.53	4.09	Ф	
L	0.140	0.190	3.56	4.83		
М	0.045	0.055	1.14	1.40		
N	0.080	0.115	2.03	2.92		

^{2.} Pulse test: Pulse width 300 μ sec, Duty cycle 2%



Curve Characteristics

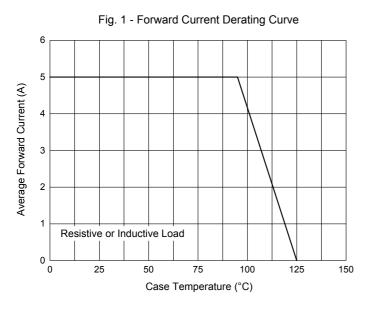
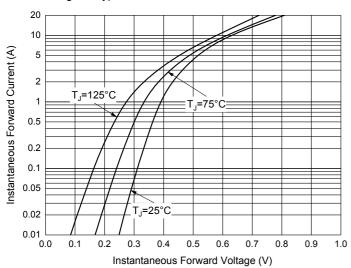


Fig. 3 - Typical Instantaneous Forward Characteristics



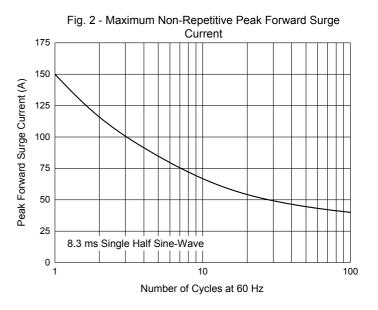
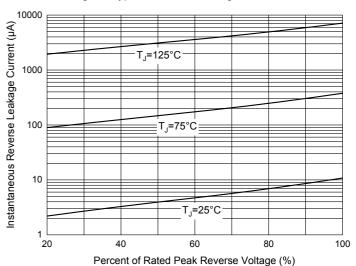


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing	
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton	

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

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