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MBR545

Features

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss high efficiency
- High surge capacity, High current capability Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix designates RoHS Compliant. See ordering information)
- Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

Maximum Ratings

- Operating Temperature: -55°C to +125°C
- Storage Temperature: -55°C to +150°C

Microsemi Catalog Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR545	MBR545	45V	31.5V	45V

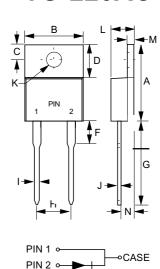
Electrical Characteristics @ 25°C Unless Otherwise Specified

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	.60V	$I_{FM} = 5 \text{ A mper}$ $T_J = 25^{\circ}\text{C (Note 2)}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	IR	0.1mA 15mA	T _J = 25°C T _J = 100°C
Typical Junction Capacitance	С	350pF	Measured at 1.0MHz, V _R =4.0V

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex 7. 2. Pulse test: Pulse width 300 µsec, Duty cycle 2%

5 Amp **Schottky Barrier** Rectifier 45 Volts

TO-220AC

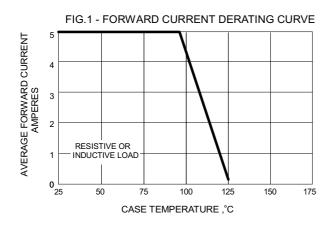


DIMENSIONS								
	INCHES		MM					
DIM	MIN	MAX	MIN	MAX	NOTE			
Α	.560	.625	14.22	15.88				
В	.380	.420	9.65	10.67				
С	.100	.135	2.54	3.43				
D	.230	.270	5.84	6.86				
F		.250		6.35				
G	.500	.580	12.70	14.73				
Η	.190	.210	4.83	5.33				
	.020	.045	0.51	1.14				
J	.012	.025	0.30	0.64				
K	.139	.161	3.53	4.09	Ø			
L	.140	.190	3.56	4.83				
M	.045	.055	1.14	1.40				
N	.080	.115	2.03	2.92				

RATING AND CHARACTERISTIC CURVES MBR545



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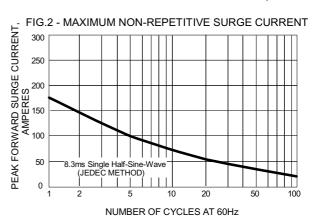
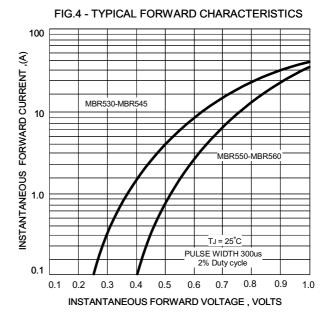
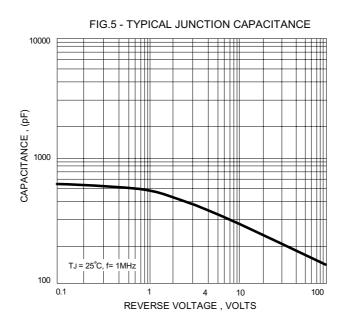


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

1000

(VE)
100
100
TJ = 100°C
1.0
TJ = 75°C
0.01
0 20 40 60 80 100 120 140
PERCENT OF RATED PEAK REVERSE VOLTAGE ,(%)







Ordering Information

Device	Packing
(Part Number)-BP	Bulk;1Kpcs/Box

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