

Features

- Multilayer Metal -Silicon Potential Structure.
- Low Power Loss, High Efficiency
- High Surge Capacity , High Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -50°C to +150°C
- Storage Temperature Range: -50°C to +150°C
- Typical Thermal Resistance: 0.5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR40100PT	MBR40100PT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

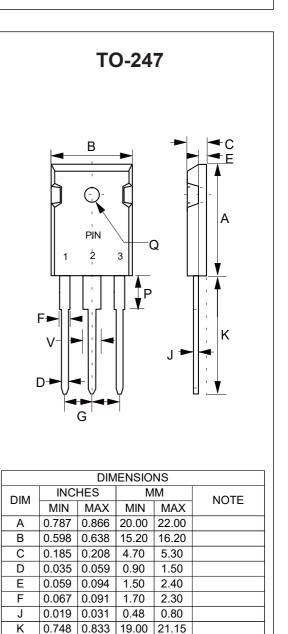
Average Forward Current	I _{F(AV)}	40A	T _C = 110°C
Peak Forward Surge Current	I _{FSM}	400A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V _F	0.80V 0.69V	I _{FM} =20A; T _J =25⁰C I _{FM} =20A; T _J =125⁰C
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	0.05mA 10mA	Tյ=25⁰C Tյ=125⁰C

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

Internal Structure

PIN 1 °	PIN 2
PIN 3 °	CASE

40 Amp Schottky Barrier Rectifier 100 Volts



Ρ

Q

V

G

0.122

0.118

0.197

0.189

0.150

0.224

0.106 0.134

3.10

3.00

2.70

5.00

4.80

3.80

3.40

5.70

Φ



Curve Characteristics

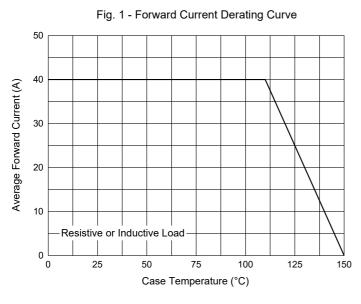
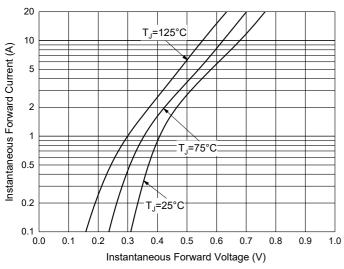
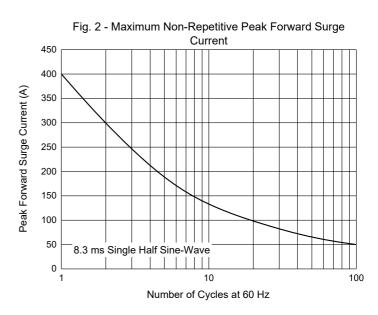
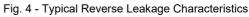
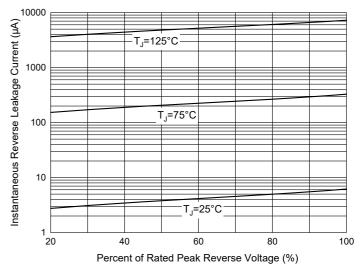


Fig. 3 - Typical Instantaneous Forward Characteristics











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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