

Features

- Guardring for Over Voltage Protection
- 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: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 0.5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMS	Maximum DC Blocking Voltage
MBR4060PT	MBR4060PT	60V	42V	60V

Electrical Characteristics @ 25°C Unless Otherwise Specified

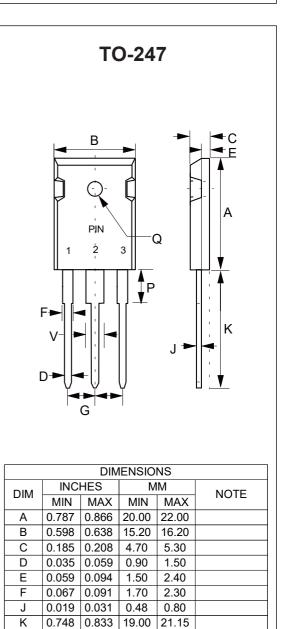
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	I _{F(AV)}	40A	T _C =110⁰C
Peak Forward Surge Current	I _{FSM}	400A	8.3ms,half sine
Maximum Instantaneous Forward Voltage	V _F	0.69V(Typ) 0.72V(Max) 0.65V(Max)	I _F =20A; T _J =25°C I _F =20A; T _J =25°C I _F =20A; T _J =125°C
Maximum Reverse Current at Rated DC Blocking Voltage	I _R	0.2mA 10mA	Tյ=25⁰C Tյ=100⁰C

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 60 Volts



0.122

0.197

0.189

0.224

0.118 0.150

0.106 0.134

3.10

3.00

2.70

5.00

4.80

3.80

3.40

5.70

Φ

Ρ

Q

V

G



Curve Characteristics

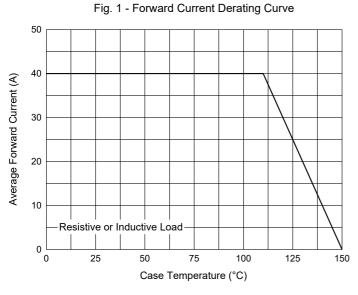
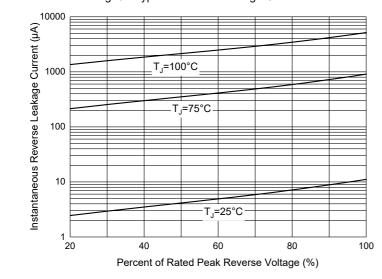


Fig. 3 - Typical Reverse Leakage Characteristics



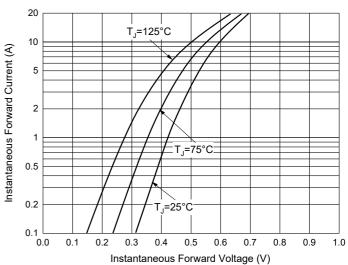


Fig. 2 - Typical Instantaneous Forward Characteristics



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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