

Features

- High Current Capability, High Efficiency
- Low Forward Voltage Drop
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note 2)("P" Suffix designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 12°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR20P50	MBR20P50	50V	35V	50V

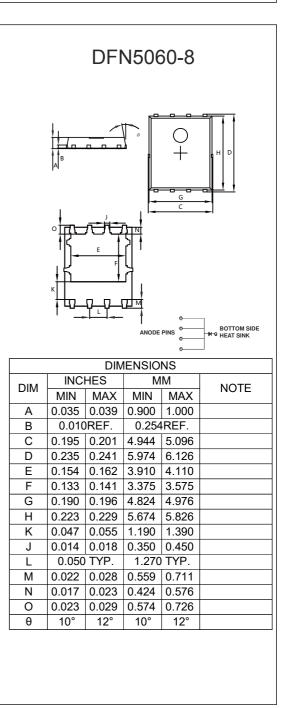
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20A	
Peak Forward Surge Current	I _{FSM}	275A	8.3ms,Half Sine
Forward Voltage	V _F	0.50V(Typ) 0.53V(Max)	I _{FM} =20A ; T _J =25⁰C
Reverse Leakage Current	I _R	0.3mA 100mA	Tյ=25⁰C Tյ=125⁰C

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.







Curve Characteristics

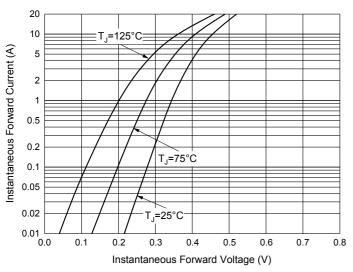


Fig. 1 - Typical Instantaneous Forward Characteristics

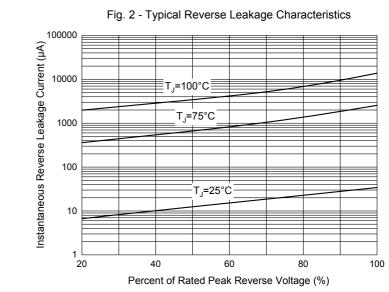


Fig. 2 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-TP	Tape&Reel:5Kpcs/Reel

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