

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

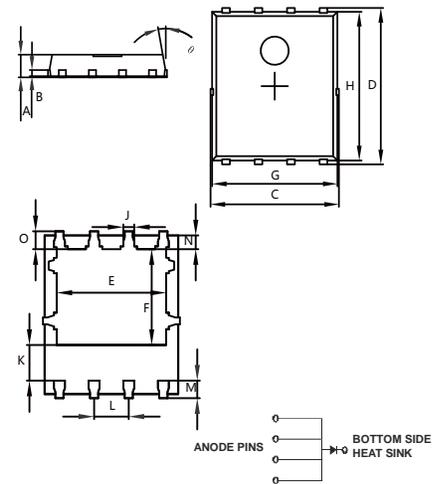
Electrical Characteristics @ 25°C Unless Otherwise Specified

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)	$I_{FM}=20A ;$ $T_J=25^{\circ}C$
Reverse Leakage Current	I_R	0.3mA 100mA	$T_J=25^{\circ}C$ $T_J=125^{\circ}C$

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.

**20 Amp
Schottky Barrier
Rectifier
50 Volts**

DFN5060-8



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.035	0.039	0.900	1.000	
B	0.010REF.		0.254REF.		
C	0.195	0.201	4.944	5.096	
D	0.235	0.241	5.974	6.126	
E	0.154	0.162	3.910	4.110	
F	0.133	0.141	3.375	3.575	
G	0.190	0.196	4.824	4.976	
H	0.223	0.229	5.674	5.826	
K	0.047	0.055	1.190	1.390	
J	0.014	0.018	0.350	0.450	
L	0.050 TYP.		1.270 TYP.		
M	0.022	0.028	0.559	0.711	
N	0.017	0.023	0.424	0.576	
O	0.023	0.029	0.574	0.726	
θ	10°	12°	10°	12°	

Curve Characteristics

Fig. 1 - Typical Instantaneous Forward Characteristics

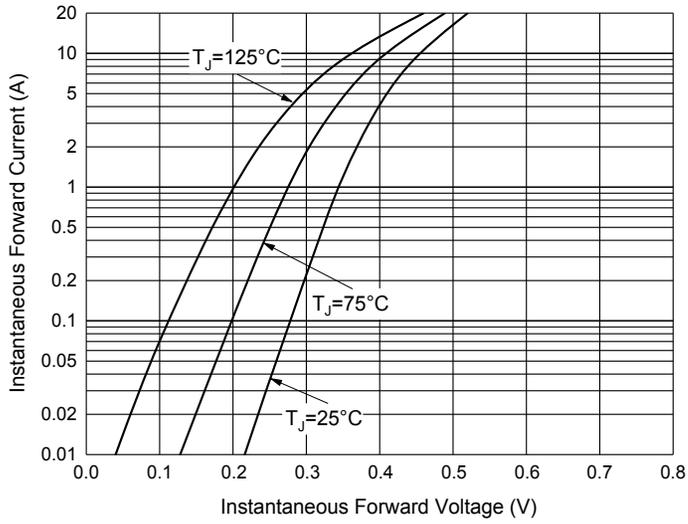
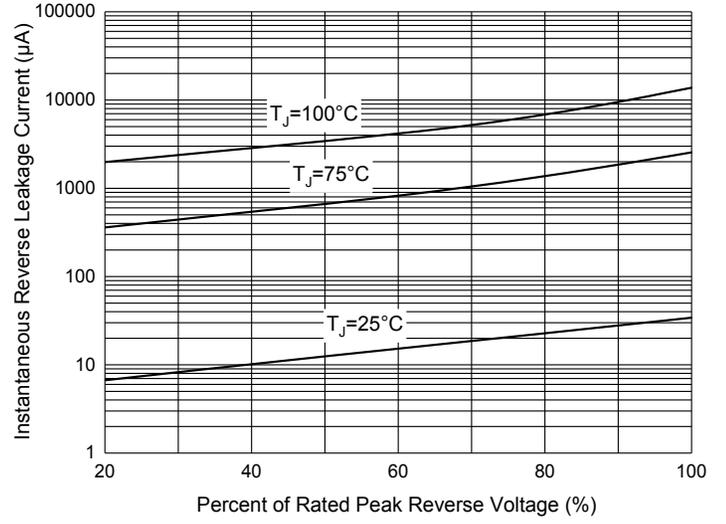


Fig. 2 - Typical Reverse Leakage Characteristics



Ordering Information

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

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