

Features

- High Surge Current Capacity
- 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
- Typical Thermal Resistance: 2.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRBL30150CT	MBRBL30150CT	150V	105V	150V

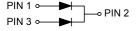
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	30A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	220A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	0.84V	I _{FM} =15A ;T _J =25°C
Maximum DC Reverse Current at Rated DC Blocking Voltage	I _R	0.1mA 20mA	T _J =25°C T _J =100°C
Current Squared Time	l²t	200A ² S	1ms≤t<8 .3ms T _J =25°C, Rating of Per Diode

Note:

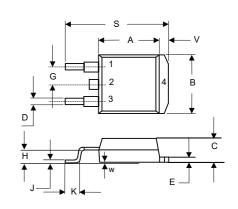
- 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.
- 2. High temperature solder exemption applied, see EU directive annex 7a.

Internal Structure



30 Amp Low VF Schottky Barrier Rectifier 150 Volts

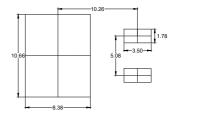
D²-PAK



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.331	0.370	8.40	9.40	
В	0.378	0.417	9.60	10.60	
С	0.165	0.189	4.20	4.80	
D	0.027	0.037	0.68	0.94	
E	0.045	0.055	1.14	1.40	
G	0.	10	2.	54	TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
K	0.071	0.131	1.80	3.32	
S	0.575	0.625	14.60	15.87	
V	0.042	0.058	1.07	1.47	
W	0.000	0.010	0.00	0.25	

Suggested Solder Pad Layout

Unit:m





Curve Characteristics

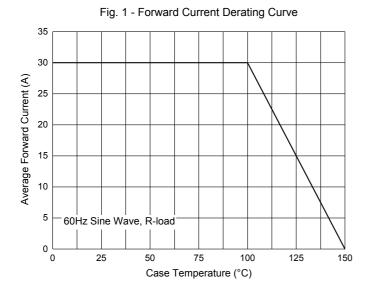
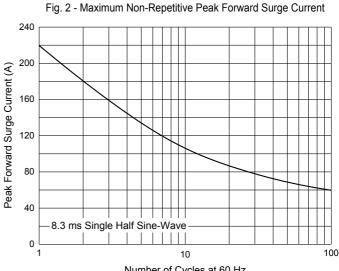
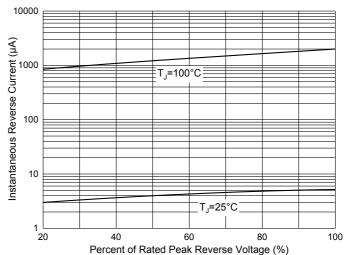


Fig. 3 - Typical Instantaneous Forward Characteristics 50 Instantaneous Forward Current (A) 10 T_J=25°C 0.1 0.0 0.2 0.4 0.6 Instantaneous Forward Voltage (V)



Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 800pcs/Reel		
Part Number-BP	Tube: 5Kpcs/Ctn		

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