

Features

- High Surge Forward Current Capability
- Low Forward Voltage Drop, Low Power Losses
- Lead Free Finish/RoHS Compliant(Note 1)("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free. "Green" Device (Note 2)
- 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°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRBL30200CT	MBRBL30200CT	200V	140V	200V

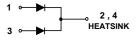
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	30A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	220A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	0.85V(Typ.) 0.78V(Max.)	I _F =15A,T _J =25°C I _F =15A,T _J =25°C I _F =15A,T _J =125°C I _F =15A,T _J =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.1mA 20mA	T _J =25°C; T _J =125°C
Typical Junction Capacitance	CJ	220pF	Measured at 1.0MHz, V _R =4.0V

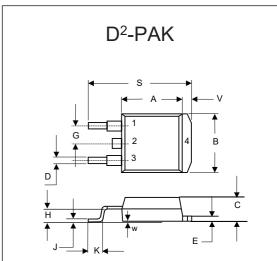
Note:

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

Internal Structure:



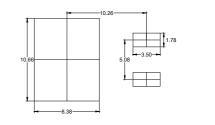
30 Amp Low VF Schottky Barrier Rectifier 200 Volts



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	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		
Е	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

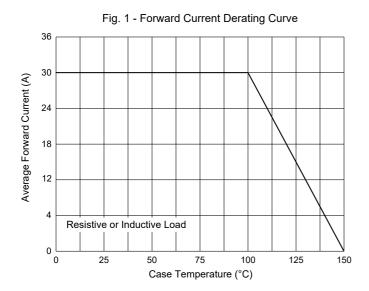
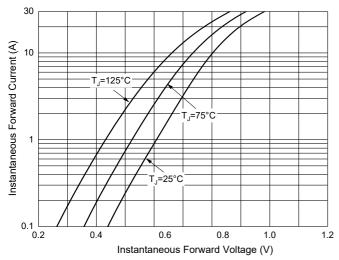


Fig. 3 - Typical Instantaneous Forward Characteristics



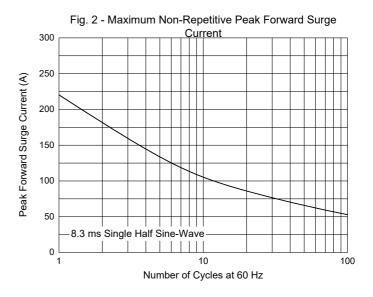
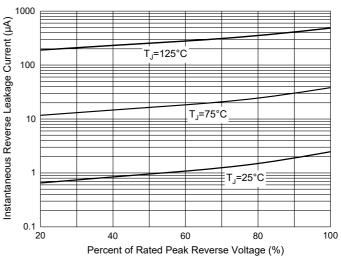


Fig. 4 - Instantaneous Reverse Characteristics





Ordering Information

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

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Rev.3-2-08202023 3/3 MCCSEMI.COM