

Features

- High Surge Forward Current Capability
- Low Forward Voltage Drop
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant(Note 2) ("P" Suffix Designates RoHS 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
- Maximum Thermal Resistance : 5.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRDL20100CT	MBRDL20100CT	100V	70V	100V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	20A	T _C =90°C
Peak Forward Surge Current	I _{FSM}	250A	8.3ms,Half Sine
Current Squared Time	l²t	260A ² S	1ms≤t<8 .3ms T _J =25ºC, Ratin g of Per Diode
Maximum Instantaneous Forward Voltage	V _F	0.72V	I _{FM} =10A; T _A =25⁰C
Peak Reverse Current	I _R	0.1mA 20mA	T _A =25°C; T _A =125°C

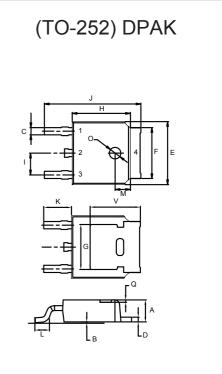
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

2. High temperature solder exemption applied, see EU directive annex 7a.

Internal Structure

PIN 1		PIN 2
PIN 3 •—	╺╺┝╸╴╴	Case

20 Amp Low VF Schottky Barrier Rectifier 100 Volts



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.087	0.094	2.20	2.40	
В	0.000	0.005	0.00	0.13	
С	0.026	0.034	0.66	0.86	
D	0.018	0.023	0.46	0.58	
Е	0.256	0.264	6.50	6.70	
F	0.201	0.215	5.10	5.46	
G	0.1	90	4.	83	
Н	0.236	0.244	6.00	6.20	
	0.086	0.094	2.18	2.39	
J	0.386	0.409	9.80	10.40	
Κ	0.1	14	2.9	90	
L	0.055	0.067	1.40	1.70	
Μ	0.0	63	1.0	60	
0	0.043	0.051	1.10	1.30	
Q	0.000	0.012	0.00	0.30	
V	0.2	11	5.3	35	



Curve Characteristics

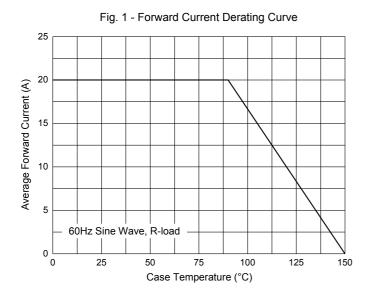


Fig. 3 - Typical Instantaneous Forward Characteristics

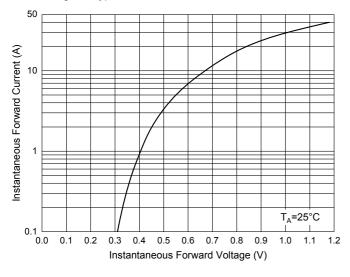
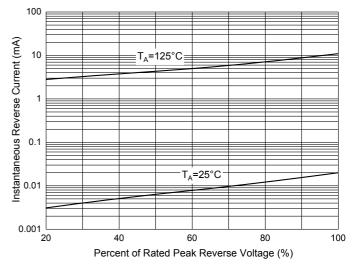


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
Part Number-TP	Bulk:2.5Kpcs/Box

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