

## Features

- High Surge Forward Current Capability
- Low Forward Voltage Drop
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("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

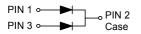
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRDL20100CT	MBRDL20100CT	100V	70V	100V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

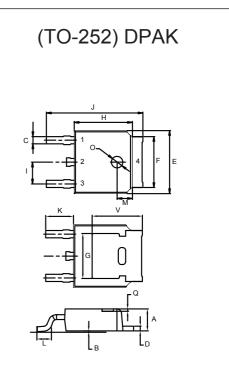
Average Forward Current	I <sub>F(AV)</sub>	20A	T <sub>C</sub> =90°C
Peak Forward Surge Current	I <sub>FSM</sub>	250A	8.3ms,Half Sine
Current Squared Time	l²t	260A <sup>2</sup> S	1ms≤t<8 .3ms T <sub>J</sub> =25ºC, Ratin g of Per Diode
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.72V	I <sub>FM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

Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

## Internal Structure



# 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	0.190		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	
М	0.063		1.60		
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**

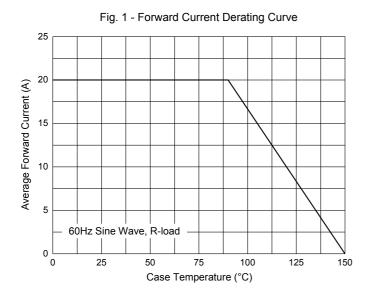


Fig. 3 - Typical Instantaneous Forward Characteristics

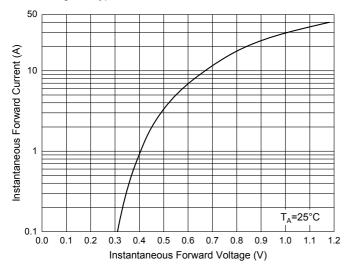
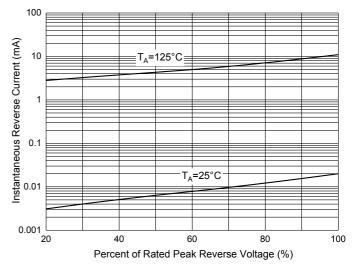


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

Fig. 4 - Typical Reverse Leakage Characteristics





# **Ordering Information**

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

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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