

#### **Features**

- High Frequency Operation
- Low Forward Voltage Drop
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)

# **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

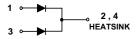
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRBL20100CT	MBRBL20100CT	100V	70V	100V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I <sub>F(AV)</sub>	20A	T <sub>C</sub> =120°C
Peak Forward Surge Current	I <sub>FSM</sub>	150A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	$V_{F}$	0.72V	I <sub>FM</sub> =10A; T <sub>A</sub> =25°C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA 10mA	T <sub>A</sub> =25°C T <sub>A</sub> =100°C
Current Squared Time	l²t	94A <sup>2</sup> s	1ms≤t≤8.3ms T <sub>A</sub> =25°C Rating of Per Diode

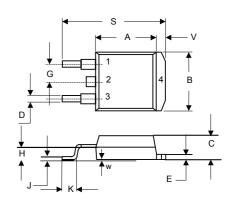
Note:1. High Temperature Solder Exemptions Applied, see EU Directive Annex Notes 7a.

### **Internal Structure**



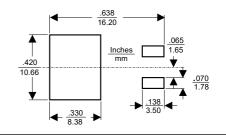
# 20 Amp Low VF Schottky Barrier Rectifier 100 Volts

# D<sup>2</sup>-PAK



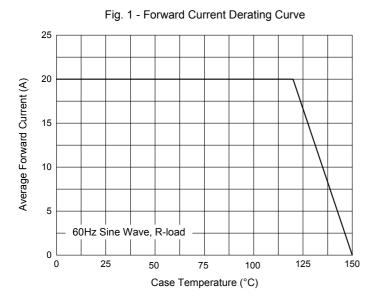
DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.331	0.370	8.40	9.40		
В	0.378	0.417	9.60	10.60		
С	0.165	0.189	4.20	4.80		
D	0.027	0.037	0.68	0.94		
Е	0.045	0.055	1.14	1.40		
G	0.010		2.54		TYP.	
Н	0.096	0.134	2.43	3.40		
J	0.011	0.025	0.28	0.64		
K	0.071	0.131	1.80	3.32		
S	0.575	0.625	14.60	15.87		
V	0.042	0.058	1.07	1.47		
W	0.000	0.010	0.00	0.25		

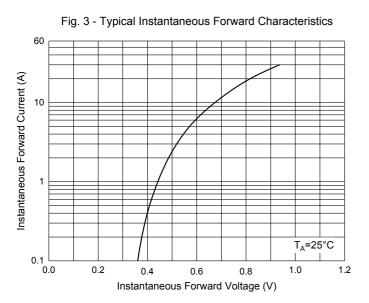
#### Suggested Solder Pad Layout

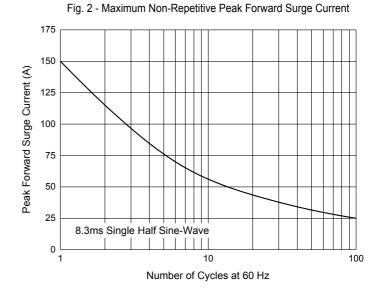


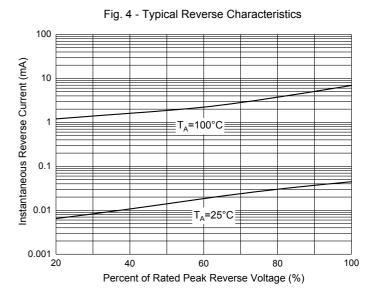


### **Curve Characteristics**











#### **Ordering Information**

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

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

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