

#### **Features**

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

# 20 Amp Low VF Schottky Barrier Rectifier 100 Volts

## **Maximum Ratings**

• Operating Junction Temperature Range: -55°C to +150°C

• Storage Temperature Range: -55°C to +150°C

• Maximum Thermal Resistance : 2.0°C/W Junction to Case

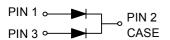
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL20U100FCT	MBRL20U100FCT	100V	70V	100V

### Electrical Characteristics @ 25°C Unless Otherwise Specified

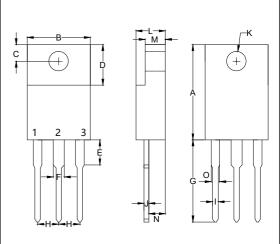
Average Forward Current	I <sub>F(AV)</sub>	20A	T <sub>C</sub> =100°C
Peak Forward Surge Current	I <sub>FSM</sub>	250A	8.3ms,Half Sine
Current Squared Time	I²t	260A <sup>2</sup> S	1ms≤t<8.3ms T <sub>J</sub> =25°C
Maximum Instantaneous Forward Voltage	V <sub>F</sub>	0.65V	I <sub>FM</sub> =10A
Maximum DC Reverse Current at Rated DC Blocking Voltage	I <sub>R</sub>	0.1mA 10mA	T <sub>J</sub> =25°C T <sub>J</sub> =100°C

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

#### Internal Structure:



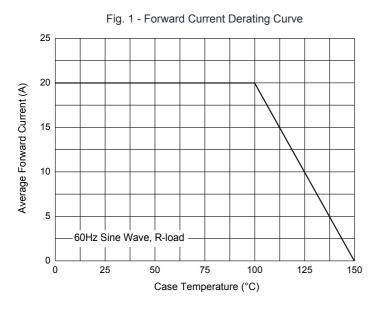
# ITO-220AB

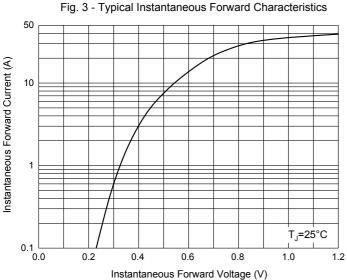


DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.567	0.642	14.40	16.30		
В		0.421		10.70		
С	0.085	0.128	2.15	3.25		
D	0.248	0.272	6.30	6.90		
Е		0.177		4.50		
F		0.071		1.80		
G	0.500	0.539	12.70	14.20		
Н	H 0.100		2.55			
I		0.035		0.90		
J		0.032		0.80		
K	0.102	0.150	2.60	3.80	Ф	
L		0.201		5.10		
М		0.140		3.56		
N	0.083	0.126	2.10	3.20		
0		0.071		1.80		



#### **Curve Characteristics**





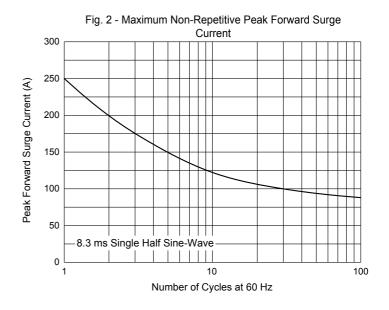


Fig. 4 - Typical Reverse Leakage Characteristics

100
10
10
10
T<sub>J</sub>=100°C
0.01
0.001
0.001
100
Percent of Rated Peak Reverse Voltage (%)

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#### **Ordering Information**

Device	Packing	
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton	

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

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