Features

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

20 Amp High Voltage Power Schottky Barrier Rectifier 200 Volts

Maximum Ratings

- Operating Junction Temperature Range: -50ºC to +150ºC
- Storage Temperature Range: -50ºC to +150ºC
- Typical Thermal Resistance 4.0°C/W Junction to Case

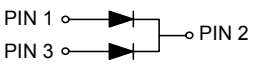
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBR20200FCT	MBR20200FCT	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

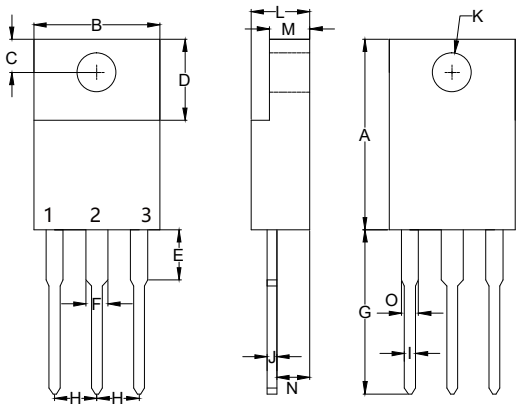
Average Forward Current	$I_{F(AV)}$	20A	T_C=115ºC
Peak Forward Surge Current	I_{FSM}	150A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V_F	0.95V 1.05V 0.85V 0.95V	I_F=10A; T_J=25ºC I_F=20A; T_J=25ºC I_F=10A; T_J=125ºC I_F=20A; T_J=125ºC
Maximum DC Reverse Current at Rated DC Blocking Voltage	I_R	50μA	T_J=25ºC

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

Internal Structure



ITO-220AB



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.567	0.642	14.40	16.30	
B	-----	0.421	-----	10.70	
C	0.085	0.128	2.15	3.25	
D	0.248	0.272	6.30	6.90	
E	-----	0.177	-----	4.50	
F	-----	0.071	-----	1.80	
G	0.500	0.539	12.70	14.20	
H	0.100		2.55		
I	-----	0.035	-----	0.90	
J	-----	0.032	-----	0.80	
K	0.102	0.150	2.60	3.80	Φ
L	-----	0.201	-----	5.10	
M	-----	0.140	-----	3.56	
N	0.083	0.126	2.10	3.20	
O	-----	0.071	-----	1.80	

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

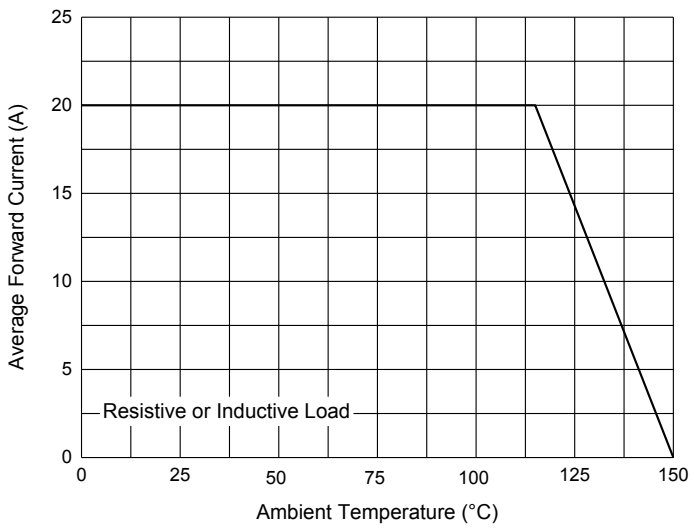


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

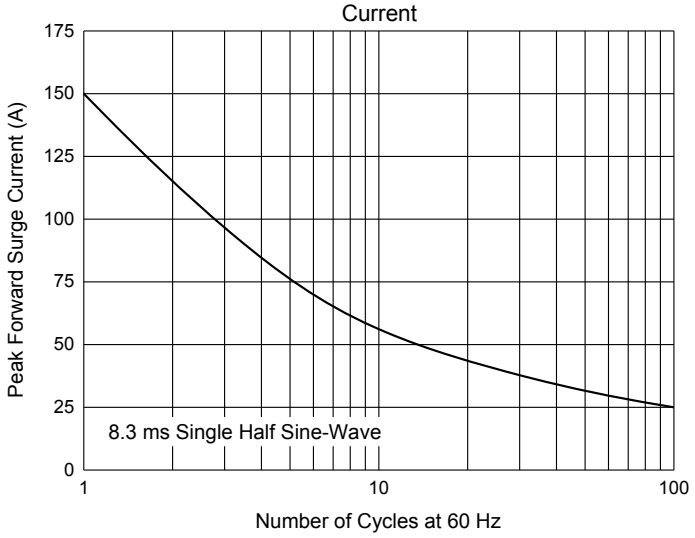


Fig. 3 - Typical Instantaneous Forward Characteristics

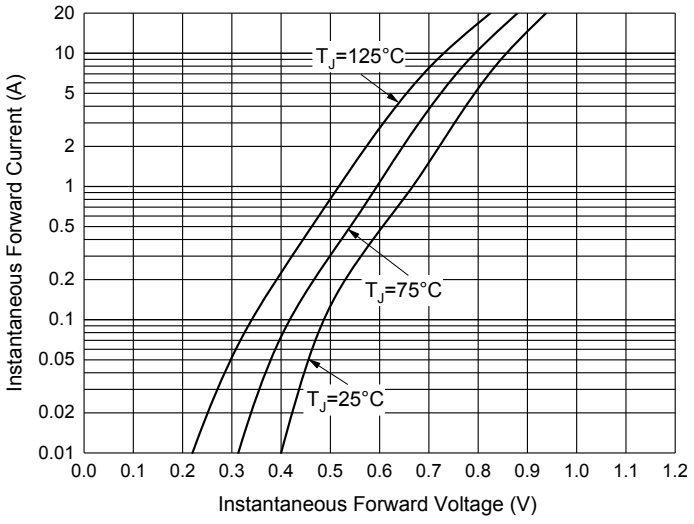
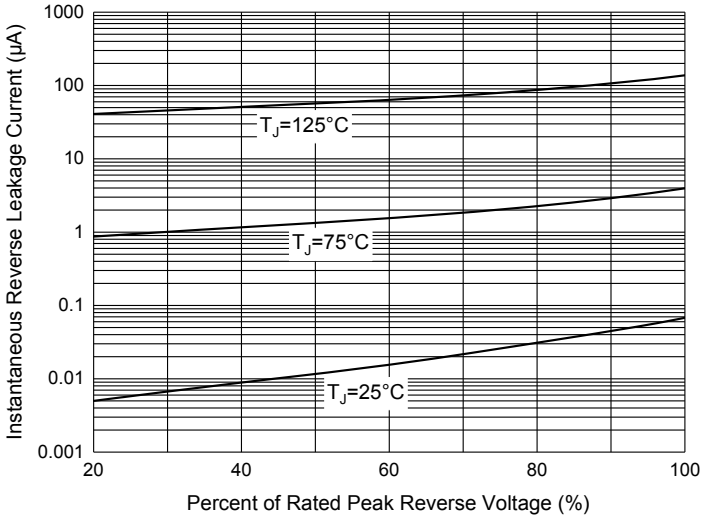


Fig. 4 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing
Part Number-BPS01	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton

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

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Condition	VAC=1500V, 1min				
No	1	2	3	4	5
Result	ACC(PASS)	ACC(PASS)	ACC(PASS)	ACC(PASS)	ACC(PASS)

Condition	VAC=1500V, 1min				
No	6	7	8	9	10
Result	ACC(PASS)	ACC(PASS)	ACC(PASS)	ACC(PASS)	ACC(PASS)