

## Features

- High Surge Current Capacity
- Low Power Loss and High Efficiency
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates 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
- Typical Thermal Resistance:4.0 °C/W Junction to Case

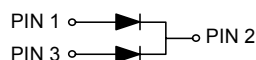
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MBRL10100FCT	MBRL10100FCT	100V	70V	100V
MBRL10150FCT	MBRL10150FCT	150V	105V	150V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	10A	$T_C=90^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	120A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage MBRL10100FCT MBRL10150FCT	$V_F$	0.72V 0.9V	$I_{FM}=5.0A$ $T_A=25^\circ\text{C}$
Maximum DC Reverse Current at Rated DC Blocking Voltage	$I_R$	0.1mA 30mA	$T_A=25^\circ\text{C}$ $T_A=100^\circ\text{C}$
Current Squared Time	$I^2t$	60A <sup>2</sup> S	$1\text{ms} \leq t < 8.3\text{ms}$ $T_J=25^\circ\text{C}$ , Rating of Per Diode

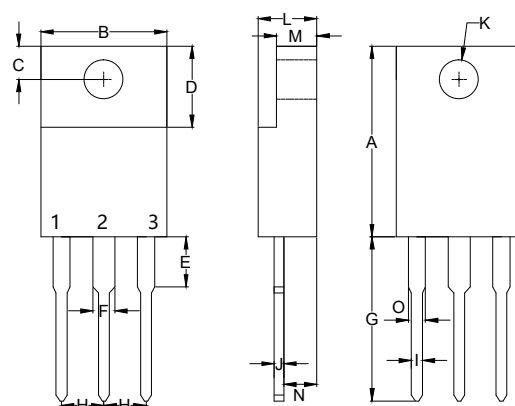
Note :1. High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

## Internal Structure



# 10 Amp Schottky Barrier Rectifier 100 to 150 Volts

## 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. F - Forward Current Derating Curve

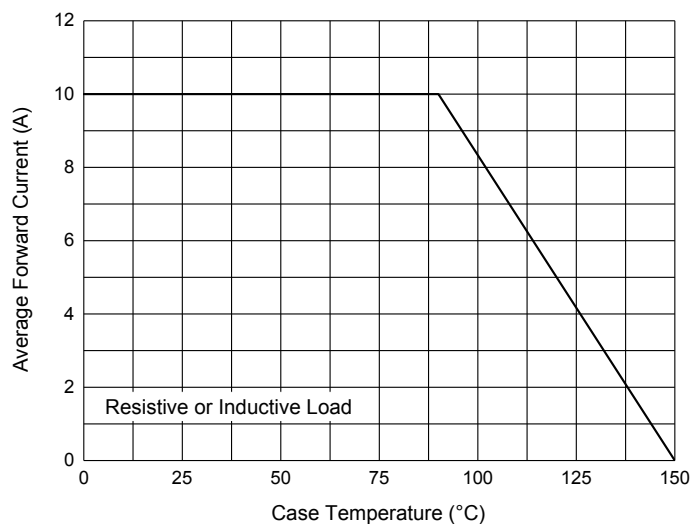


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

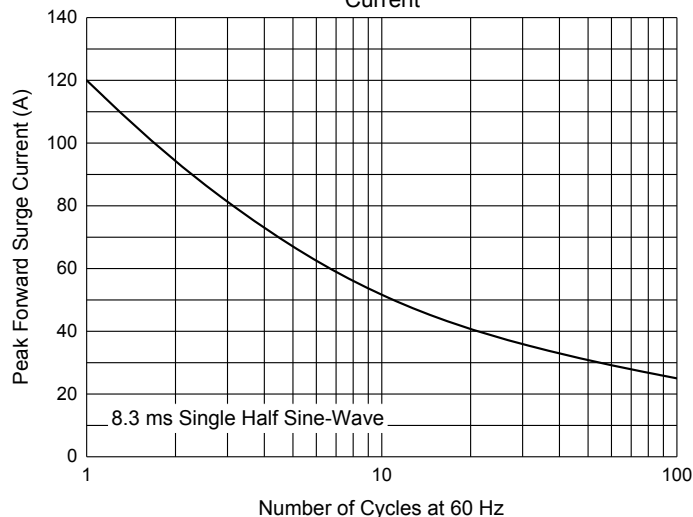


Fig. 3 - Typical Instantaneous Forward Characteristics

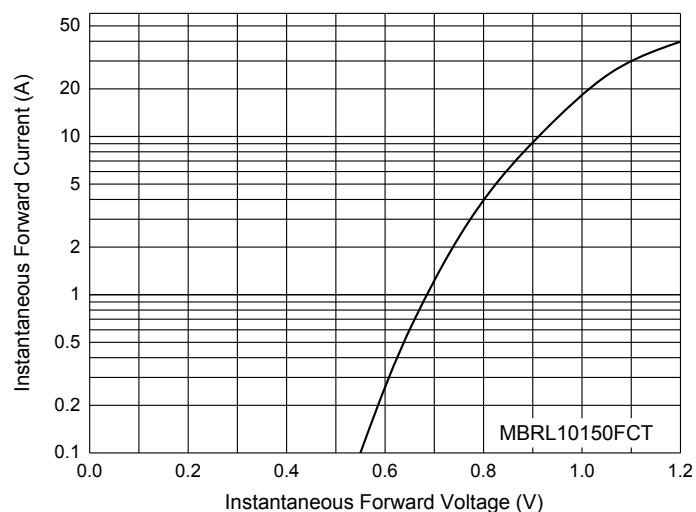


Fig. 4 - Typical Instantaneous Forward Characteristics

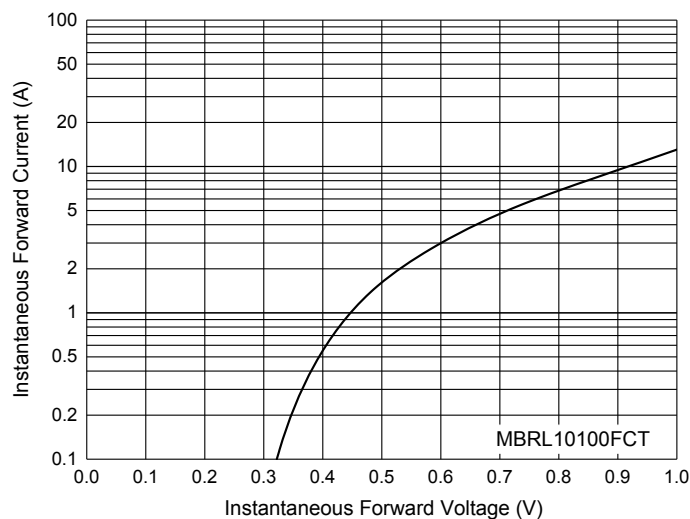
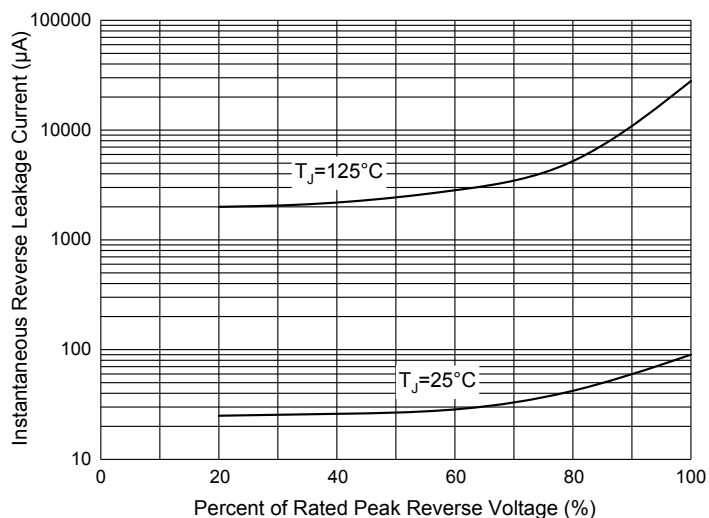


Fig. 5 - Typical Reverse Leakage Characteristics



## 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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