

## Features

- 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"

## Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 2.5°C/W Junction to Case

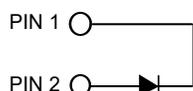
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR810F	MUR810F	100V	70V	100V
MUR820F	MUR820F	200V	140V	200V
MUR840F	MUR840F	400V	280V	400V
MUR860F	MUR860F	600V	420V	600V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	$I_{F(AV)}$	8.0A	$T_C=100^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	125A	8.3ms, Half Sine
Maximum Instantaneous Forward Voltage MUR810F-MUR820F MUR840F MUR860F	$V_F$	0.975V 1.3V 1.5V	$I_{FM}=8A$ $T_J=25^\circ\text{C}$
Maximum DC Reverse Current At Rated DC Blocking Voltage	$I_R$	5.0 $\mu\text{A}$ 500 $\mu\text{A}$	$T_J=25^\circ\text{C};$ $T_J=125^\circ\text{C}$
Maximum Reverse Recovery Time MUR810F-MUR820F MUR840F-MUR860F	$t_{rr}$	35ns 50ns	$I_F=0.5A; I_R=1.0A;$ $I_{RR}=0.25A$

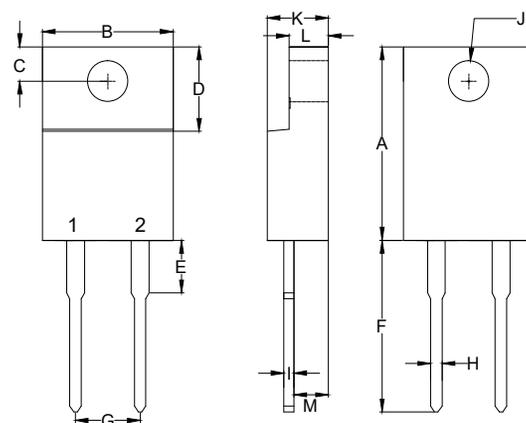
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

## Internal Structure



# 8 Amp Super Fast Rectifier 100 to 600 Volts

## ITO-220AC



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.567	0.606	14.40	15.40	
B	----	0.406	----	10.30	
C	0.100	0.112	2.55	2.85	
D	0.248	0.272	6.30	6.90	
E	----	0.161	----	4.10	
F	0.500	0.543	12.70	13.80	
G	0.200		5.10		
H	----	0.035	----	0.90	
I	----	0.032	----	0.80	
J	0.102	0.134	2.60	3.40	$\Phi$
K	----	0.189	----	4.80	
L	----	0.123	----	3.10	
M	0.098	0.114	2.50	2.90	

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

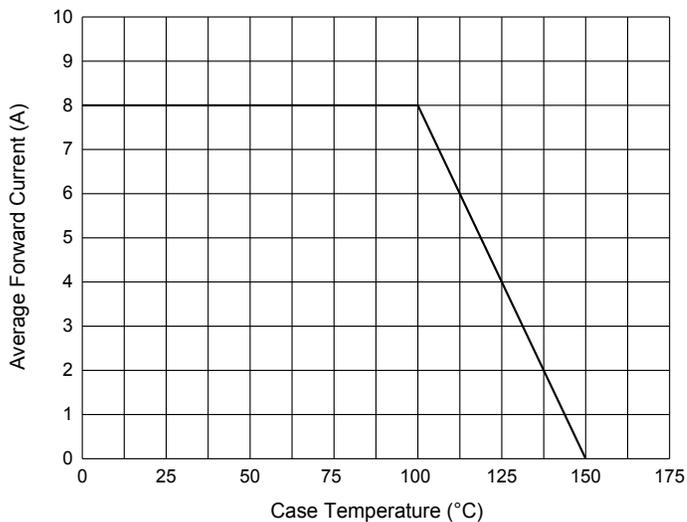


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

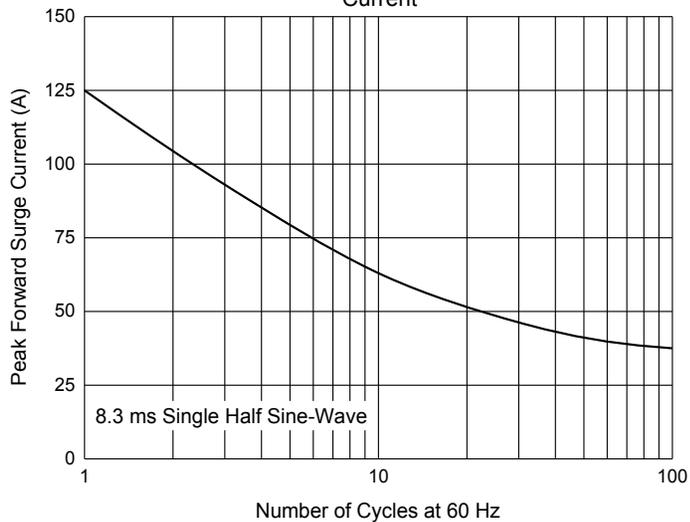


Fig. 3 - Typical Instantaneous Forward Characteristics

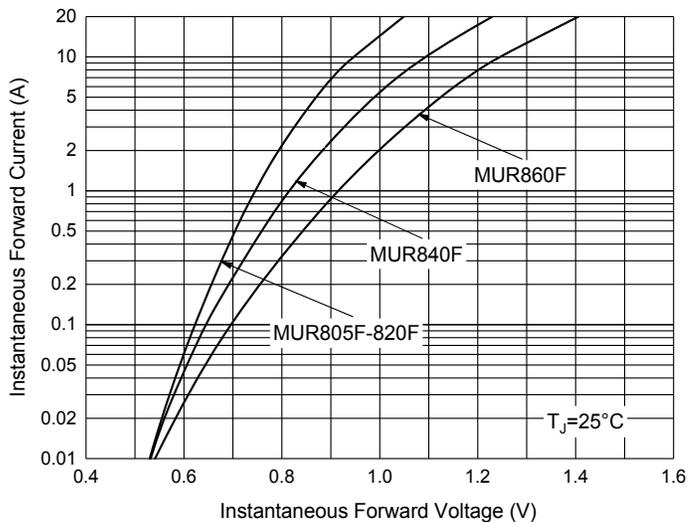
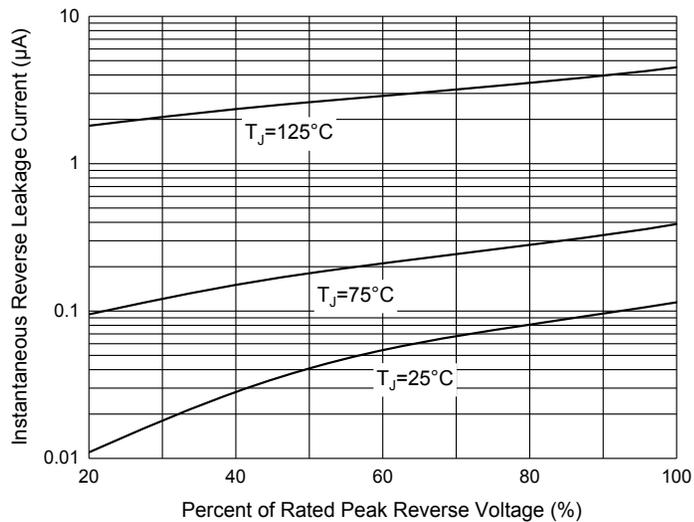


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

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

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

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