

## Features

- Super Fast Switching For High Efficiency.
- Low Reverse Leakage
- Lead Free Finish/Rohs Compliant (Note1) ("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 +175°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 1.5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR1560H	MUR1560H	600V	420V	600V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	$I_{F(AV)}$	15A	$T_C=125^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	180A	8.3ms, Half Sine Wave
Maximum Instantaneous Forward Voltage	$V_F$	0.99V(Typ) 0.90V(Max) 1.23V(Typ) 1.15V(Max) 1.55V(Typ) 1.65V(Max) 1.40V(Max)	$I_F=1\text{A}; T_J=25^\circ\text{C}$ $I_F=1\text{A}; T_J=125^\circ\text{C}$ $I_F=5\text{A}; T_J=25^\circ\text{C}$ $I_F=5\text{A}; T_J=125^\circ\text{C}$ $I_F=15\text{A}; T_J=25^\circ\text{C}$ $I_F=15\text{A}; T_J=25^\circ\text{C}$ $I_F=15\text{A}; T_J=125^\circ\text{C}$
Maximum Reverse Current At Rated DC Blocking Voltage	$I_R$	3μA 0.1mA	$T_J=25^\circ\text{C}$ $T_J=125^\circ\text{C}$
Maximum Reverse Recovery Time	$T_{RR}$	35ns	$I_F=0.5\text{A}; I_R=1.0\text{A}; I_{REC}=0.25\text{A}$

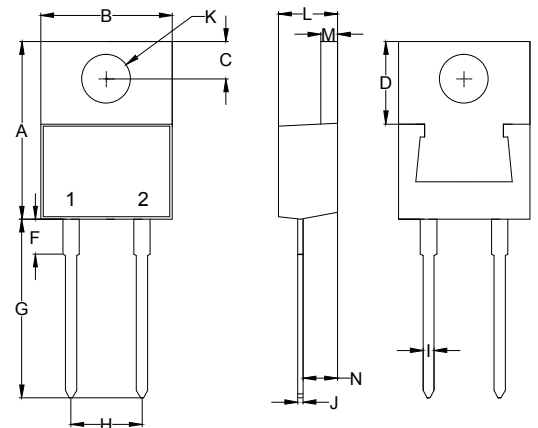
Note: 1. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

## Internal Structure



# 15 Amp Super Fast Recovery Rectifier 600 Volts

## TO-220AC



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	0.560	0.625	14.22	15.88	
B	0.380	0.420	9.65	10.67	
C	0.100	0.135	2.54	3.43	
D	0.230	0.270	5.84	6.86	
F	-----	0.250	-----	6.35	
G	0.500	0.580	12.70	14.73	
H	0.190	0.210	4.83	5.33	
I	0.020	0.045	0.51	1.14	
J	0.012	0.025	0.30	0.64	
K	0.139	0.161	3.53	4.09	Φ
L	0.140	0.190	3.56	4.83	
M	0.045	0.055	1.14	1.40	
N	0.080	0.115	2.03	2.92	

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

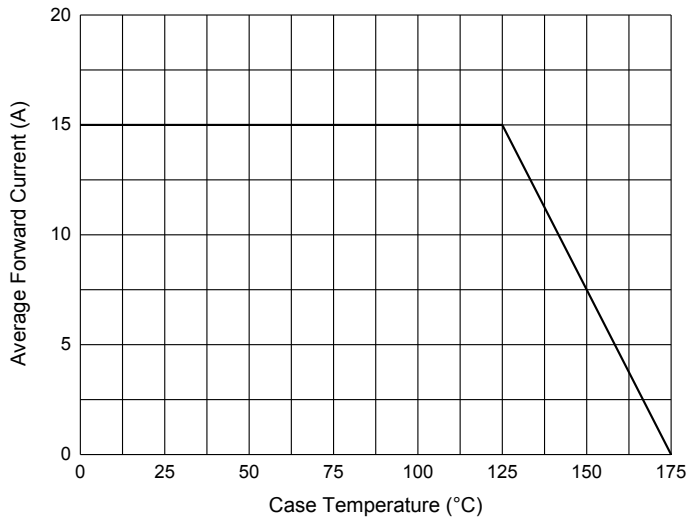


Fig. 2 - Instantaneous Forward Characteristics

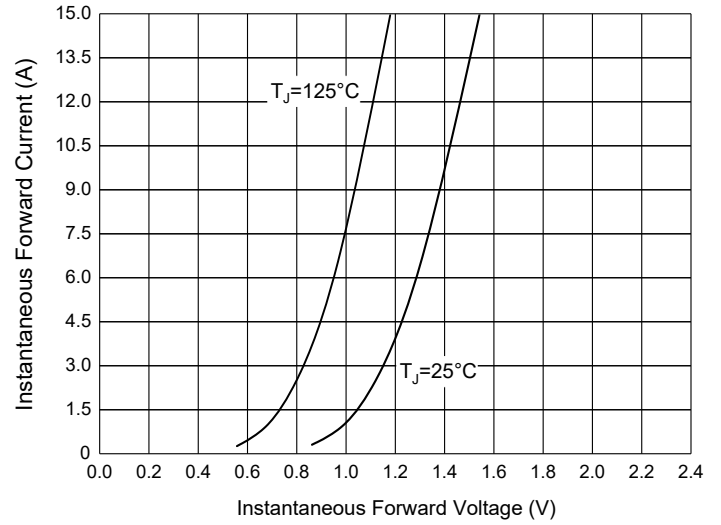
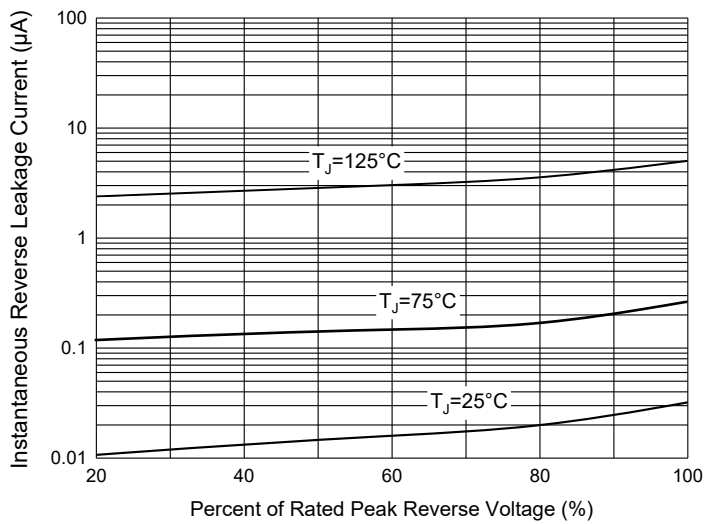


Fig. 3 - Reverse Leakage Characteristics



## 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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