

**Features**

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Efficiency
- High Reliability
- Epoxy Meets UL 94 V-0 Flammability Rating

**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

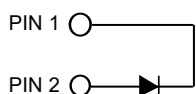
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3060F	MUR3060F	600V	420V	600V

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

Average Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	$I_{F(AV)}$	30A	$T_C=110^\circ\text{C}$
Peak Forward Surge Current	$I_{FSM}$	200A	8.3ms, Half Sine Wave
Maximum Instantaneous Forward Voltage	$V_F$	1.3V(Typ) 1.7V(Max) 1.2V(Max)	$I_F=30A; T_J=25^\circ\text{C}$ $I_F=30A; T_J=25^\circ\text{C}$ $I_F=30A; T_J=125^\circ\text{C}$
Maximum Reverse Current At Rated DC Blocking Voltage	$I_R$	0.05mA 25mA	$T_J=25^\circ\text{C};$ $T_J=125^\circ\text{C}$
Maximum Reverse Recovery Time	$t_{rr}$	50ns	$I_F=0.5A; I_R=1.0A;$ $I_{rr}=0.25A$

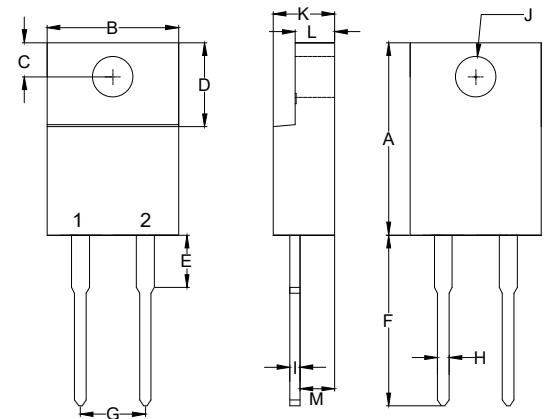
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

**Internal Structure**



**30 Amp Super Fast Rectifier  
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	Φ
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

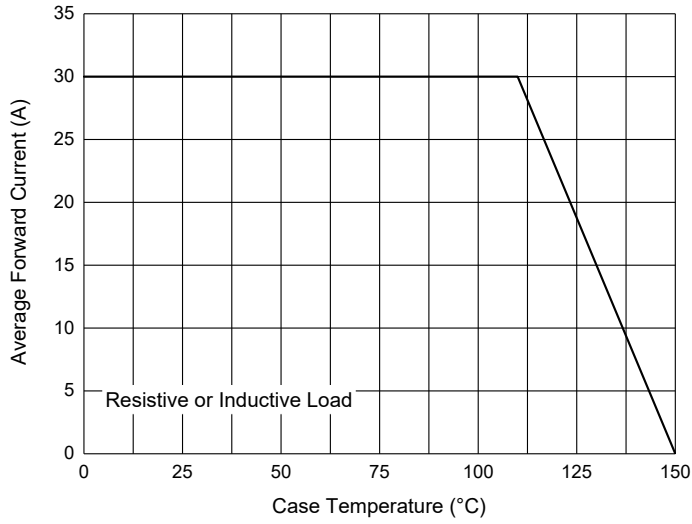


Fig. 2 - Typical Instantaneous Forward Characteristics

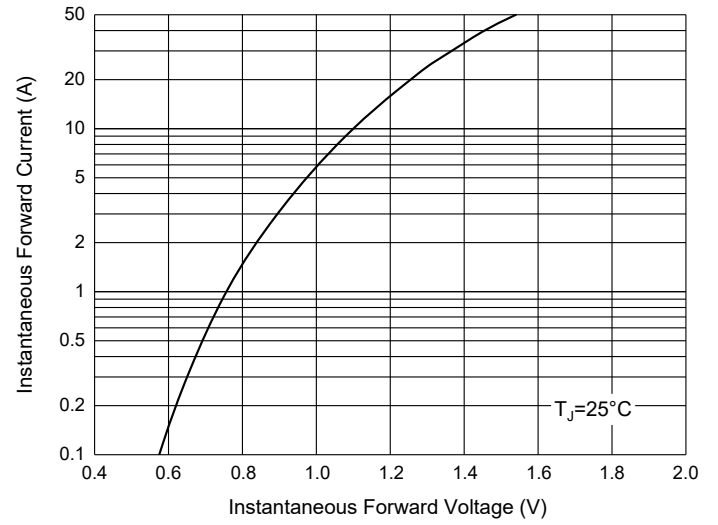
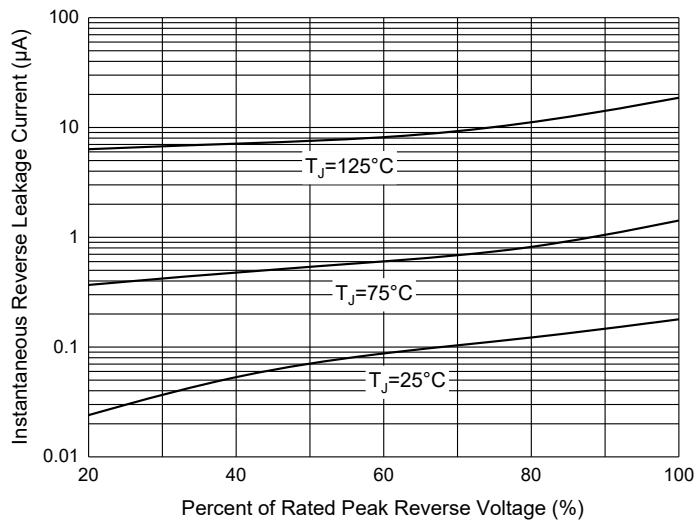


Fig. 3 - Typical Reverse Leakage Characteristics



## 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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