

## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- High Efficiency
- High Reliability
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- 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
- Thermal Resistance: 2.0°C/W Junction to Case

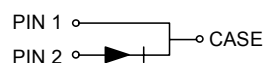
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURS3060	MURS3060	600V	420V	600V

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

Average Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	$I_{F(AV)}$	30A	$T_C=110^{\circ}C$
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	$I_F=30A; T_J=25^{\circ}C$ $I_F=30A; T_J=25^{\circ}C$ $I_F=30A; T_J=125^{\circ}C$
Maximum Reverse Current At Rated DC Blocking Voltage	$I_R$	0.05mA 25mA	$T_J=25^{\circ}C$ ; $T_J=125^{\circ}C$
Maximum Reverse Recovery Time	$T_{RR}$	50ns	$I_F=0.5A; I_R=1.0A$ ; $I_{rr}=0.25A$

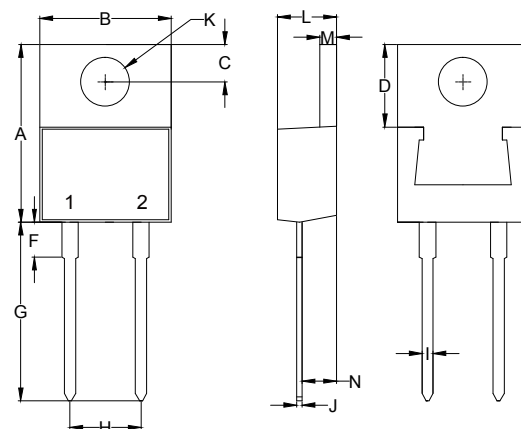
Note :1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

## Internal Structure



# 30 Amp Super Fast Rectifier 600 Volts

## TO-220AC



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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

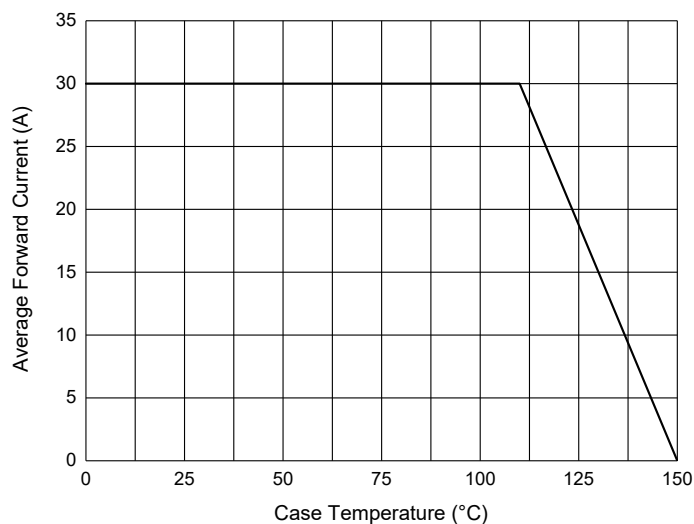


Fig. 2 - Typical Instantaneous Forward Characteristics

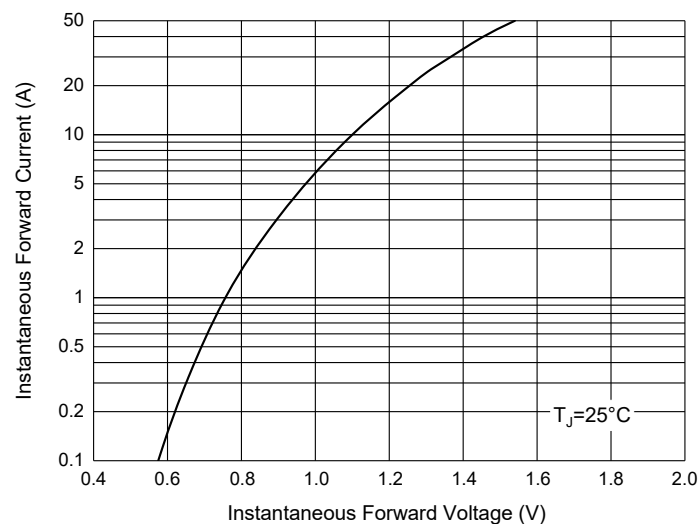
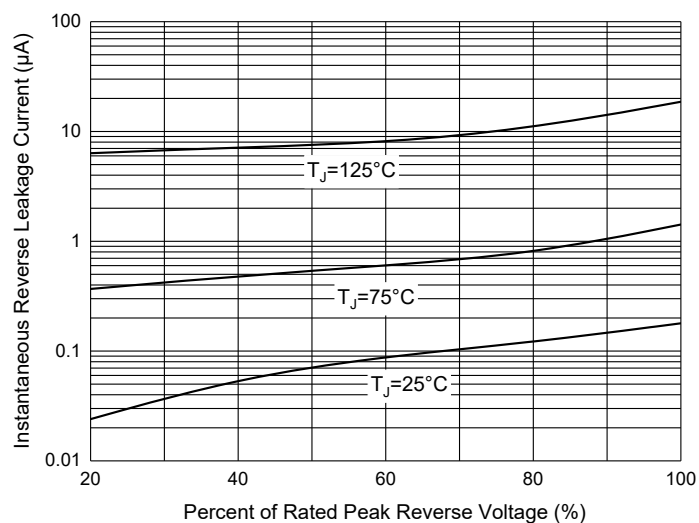


Fig. 3 - Typical Reverse Leakage Characteristics



## 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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