

**Features**

- Super Fast Switching For High Efficiency
- High Junction Temperature Capability
- Low Reverse Leakage
- High Forward Surge Current Caability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Planar Structure Die and Soft Recovery Characteristics

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Typical Thermal Resistance: 0.5°C/W Junction to Case

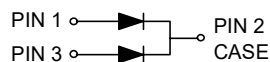
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR2040PT	MUR2040PT	400V	280V	400V

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

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	$I_{F(AV)}$	20A	$T_C=130^\circ C$
Peak Forward Surge Current	$I_{FSM}$	160A	8.3ms, Half Sine
Instantaneous Forward Voltage	$V_F$	1.13V(Typ) 1.40V(Max) 1.20V(Max)	$I_{FM}=10A, T_J=25^\circ C$ $I_{FM}=10A, T_J=25^\circ C$ $I_{FM}=10A, T_J=125^\circ C$
Maximum Reverse Current At Rated DC Blocking Voltage	$I_R$	10µA 0.10mA	$T_J=25^\circ C$ $T_J=125^\circ C$
Maximum Reverse Recovery Time	$t_{rr}$	35ns	$I_F=0.5A; I_R=1.0A, I_{RR}=0.25A$

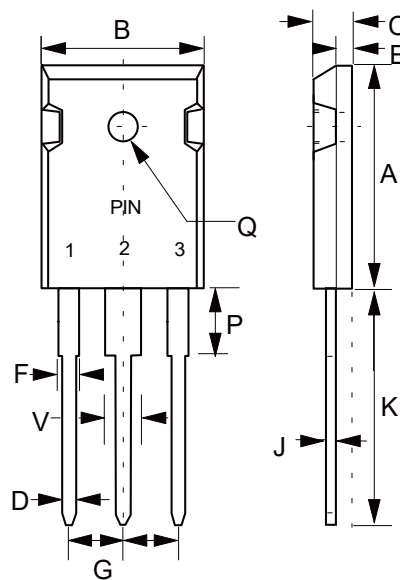
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

**Internal Structure**



**2\$ Amp  
Super Fast  
Recovery Rectifier  
4\$\$ Volts**

**TO-247**



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.787	0.866	20.00	22.00	
B	0.598	0.638	15.20	16.20	
C	0.185	0.208	4.70	5.30	
D	0.035	0.059	0.90	1.50	
E	0.059	0.094	1.50	2.40	
F	0.067	0.091	1.70	2.30	
J	0.019	0.031	0.48	0.80	
K	0.748	0.833	19.00	21.15	
P	0.122	0.189	3.10	4.80	
Q	0.118	0.150	3.00	3.80	φ
V	0.106	0.134	2.70	3.40	
G	0.197	0.224	5.00	5.70	

**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

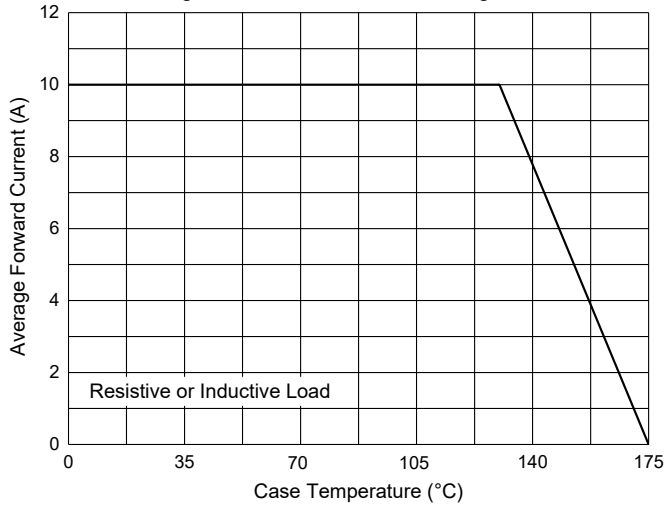


Fig. 2 - Typical Instantaneous Forward Characteristics

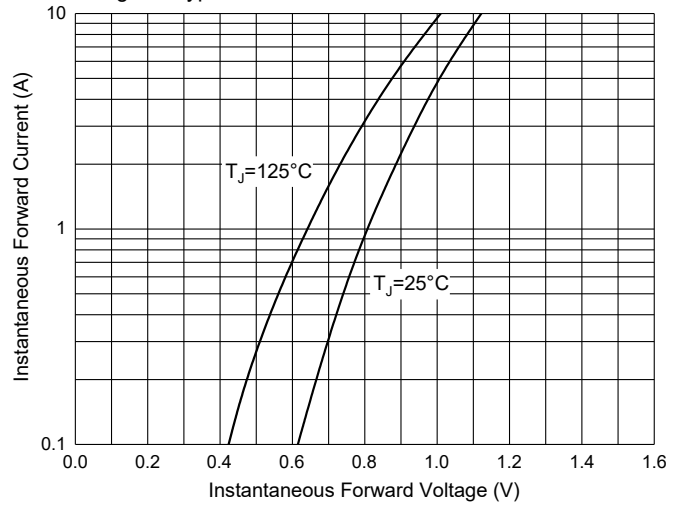
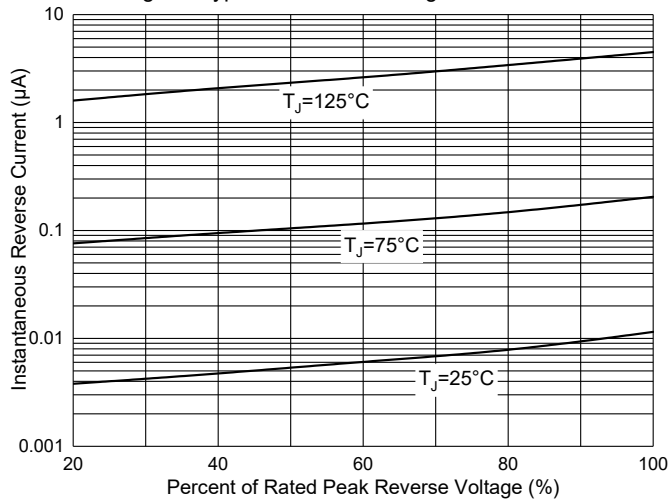


Fig. 3 - Typical Reverse Leakage Characteristics



## Ordering Information

Device	Packing
Part Number-BP	Bulk:30pcs/Tube,360pcs/Box,1.8Kpcs/Carton

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

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