

# 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
MUR6060PT	MUR6060PT	600V	420V	600V

## Electrical Characteristics @ 25°C Unless Otherwise Specified

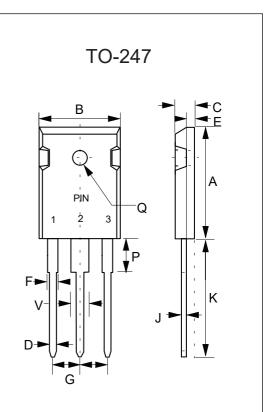
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	I <sub>F(AV)</sub>	60A	T <sub>c</sub> =135⁰C
Peak Forward Surge Current	I <sub>FSM</sub>	300A	8.3ms,Half Sine
Instantaneous Forward Voltage	V <sub>F</sub>	1.3V(Typ) 1.55V(Max) 1.45V(Max)	I <sub>FM</sub> =30A T <sub>J</sub> =25°C I <sub>FM</sub> =30A T <sub>J</sub> =25°C I <sub>FM</sub> =30A T <sub>J</sub> =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I <sub>R</sub>	10µA 0.10mA	Tյ=25⁰C Tյ=125⁰C
Maximum Reverse Recovery Time		50ns	I <sub>F</sub> =0.5A; I <sub>R</sub> =1.0A, I <sub>RR</sub> =0.25A

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

Internal Structure

PIN 1 • PIN 2 PIN 3 • PIN 2





DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.787	0.866	20.00	22.00	
В	0.598	0.638	15.20	16.20	
С	0.185	0.208	4.70	5.30	
D	0.035	0.059	0.90	1.50	
Е	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	
Κ	0.748	0.833	19.00	21.15	
Ρ	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**

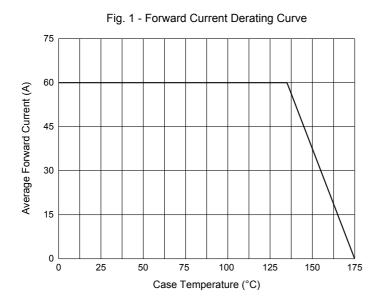
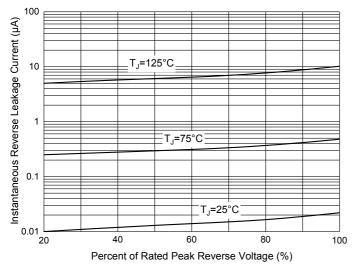
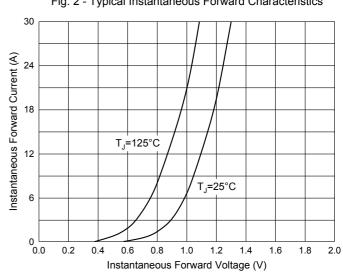


Fig. 3 - Typical Reverse Leakage Characteristics





### Fig. 2 - Typical Instantaneous Forward 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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