

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
MUR6040PT	MUR6040PT	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

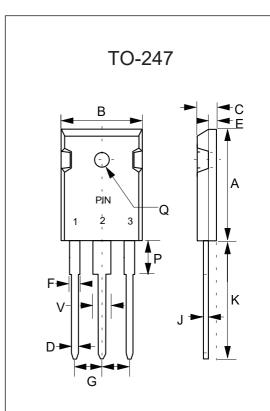
Average Rectified Forward Current	T _C =120°C
(Rated VR-20Khz Square Wave) - 50% Duty Cycle	10 120 0
Peak Forward Surge Current I _{FSM} 480A	8.3ms,Half Sine
Instantaneous Forward Voltage V _F 1.20V(Typ) 1.40V(Max) 1.20V(Max)	I _{FM} =30A,T _J =25°C I _{FM} =30A,T _J =25°C I _{FM} =30A,T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage I _R 10μA 0.10mA	Tյ=25°C Tյ=125°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 Exemptions Applied, See EU Directive Annex 7a.

Internal Structure



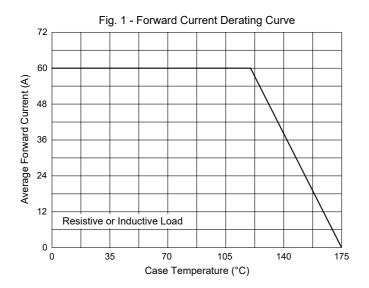
60 Amp Super Fast Recovery Rectifier 400 Volts

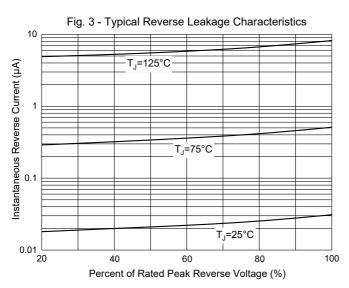


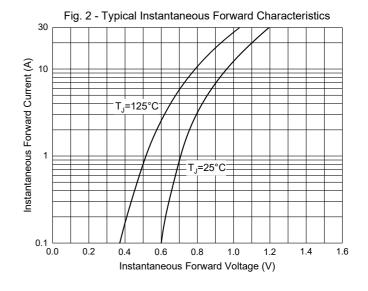
	DIMENSIONS							
DIM	INCHES		MM		NOTE			
DIIVI	MIN	MAX	MIN	MAX	NOTE			
Α	0.787	0.866	20.00	22.00				
В	0.598	0.638	15.20	16.20				
С	0.185	0.208	4.70	5.30				
D	0.035	0.059	0.90	1.50				
E	0.059	0.094	1.50	2.40				
F	0.067	0.091	1.70	2.30				
J	0.019	0.031	0.48	0.80				
K	0.748	0.833	19.00	21.15			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



Curve 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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