

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
- · Moisture Sensitivity Level 1
- 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: 1°C/W Junction to Case
- Typical Thermal Resistance: 50°C/W Junction to Ambient

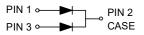
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR6060PTH	MUR6060PTH	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

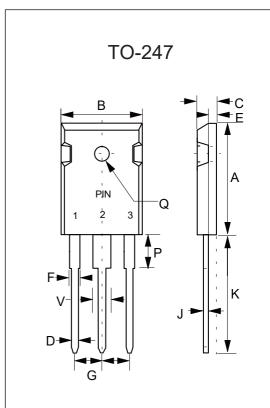
Average Rectified Forward Current	I _{F(AV)}	60A	T _C =80°C	
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,Ha	alf Sine
Instantaneous Forward Voltage	V _F	1.45V(Typ.) 1.60V(Max.) 1.45V(Max.)	I _{FM} =30A;T _J =25°C I _{FM} =30A;T _J =25°C I _{FM} =30A;T _J =150°C	
Reverse Current At Rated DC Blocking Voltage	I _R	5μA(Max.) 200uA(Max.)	T _J =25°C T _J =150°C	
Avalanche Energy	E _{AS}	385mJ	T _P =40uS,l T _J =25°C	L=15mH,
Reverse Recovery	t _{rr}	38ns(Typ.) 50ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A	
Time		112ns(Typ.) 175ns(Typ.)	T _J =25°C T _J =125°C	1 -204
Peak recovery current	I _{RRM}	5.5A(Typ.) 13A(Typ.)	T _J =25°C T _J =125°C	I _F =30A di _F /dt=200A/μs V _R =200 V
Reverse recovery charge	Q _{rr}	300nC(Typ.) 1150nC(Typ.)	T _J =25°C T _J =125°C	VR 200 V

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

Internal Structure



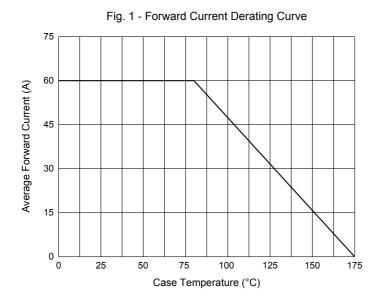
60 Amp Super Fast Recovery Rectifier 600 Volts

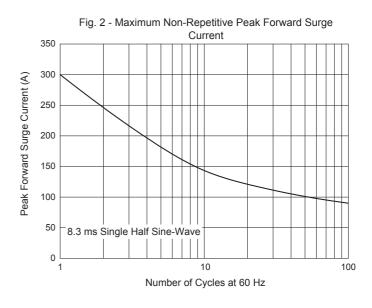


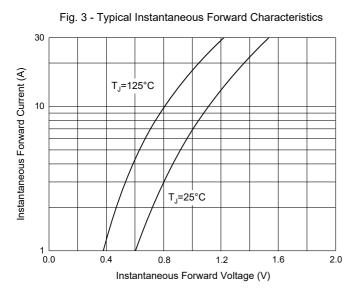
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.787	0.866	20.00	22.00			
В	0.598	0.638	15.20	16.20			
С	0.185	0.208	4.70	5.30			
D	0.035	0.059	0.90	1.50			
Е	0.059	0.094	1.50	2.40			
F	0.067	0.091	1.70	2.30			
J	0.019	0.031	0.48	0.80			
K	0.748	0.833	19.00	21.15			
Р	0.122	0.189	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			

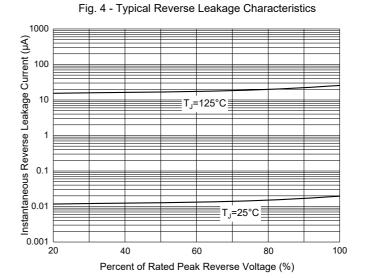


Curve Characteristics









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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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