

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Fast Reverse Recovery Time
- High Frequency Operation
- Epoxy Meets UL 94 V-0 Flammability Rating
- 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

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3060PTH	MUR3060PTH	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

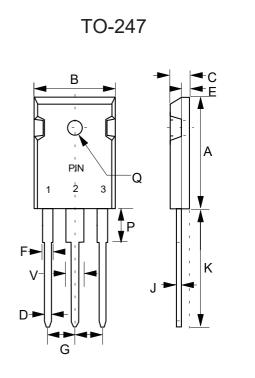
Average Rectified Forward Current	I _{F(AV)}	30A	T _C =125⁰C	;	
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Hal	f Sine	
Instantaneous Forward Voltage	V _F	1.45V(Typ) 1.60V(Max) 1.40V(Max)	I _F =15A; T I _F =15A; T I _F =15A; T	=25°C	
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5uA 200uA	T _J =25°C; T _J =150°C		
Avalanche Energy	E _{AS}	140mJ	T _P =40uS,L=15mH, T _J =25⁰C		
Reverse Recovery		26ns(Typ.) 35ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A		
Time	t _{rr}	115ns(Typ.) 200ns(Typ.)	T _J =25⁰C T _J =125⁰C		
Peak recovery current	I _{RRM}	5.0A(Typ.) 10.5A(Typ.)	T _J =25⁰C T _J =125⁰C	I _F =15A di _F /dt=200A/µs V _R =200 V	
Reverse recovery charge	Q _{rr}	285nC(Typ.) 1000nC(Typ.)	T _J =25⁰C T _J =125⁰C		

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

Internal Structure

PIN 1 •—	▶ _	PIN 2
PIN 3 •—		CASE

30 Amp Super Fast Recovery Rectifier 600 Volts



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	
Р	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

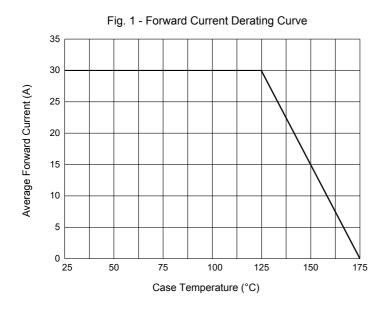
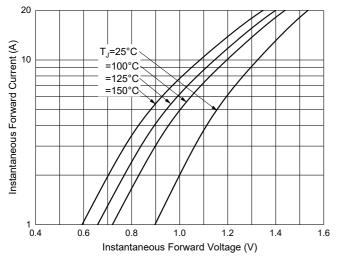


Fig. 3 - Typical Instantaneous Forward Characteristics



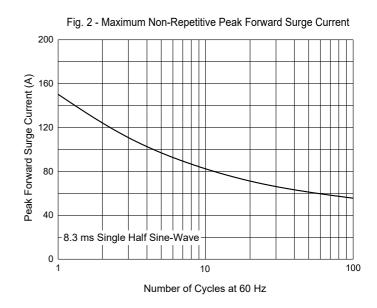
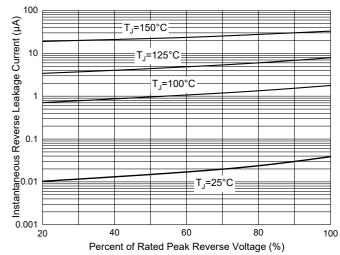


Fig. 4 - Typical Reverse Leakage Characteristics





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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