

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

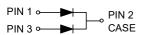
MC Part Nu	_	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR306	80PTH	MUR3060PTH	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

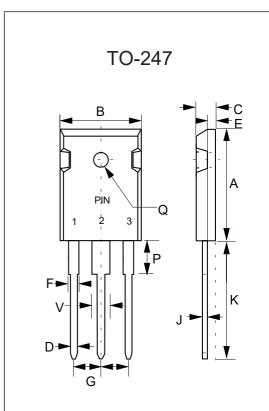
Average Rectified Forward Current	I _{F(AV)}	30A	T _C =125°C	
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine	
Instantaneous Forward Voltage	V _F	1.45V(Typ) 1.60V(Max) 1.40V(Max)	I _F =15A; T _J =25°C I _F =15A; T _J =25°C I _F =15A; T _J =150°C	
Maximum Reverse Current At Rated DC Blocking 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 =25°C	
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 =25°C T _J =125°C	1 –450
Peak recovery current	I _{RRM}	5.0A(Typ.) 10.5A(Typ.)	T _J =25°C T _J =125°C	I _F =15A di _F /dt=200A/μs V _R =200 V
Reverse recovery charge	Q _{rr}	285nC(Typ.) 1000nC(Typ.)	T _J =25°C T _J =125°C	200

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

Internal Structure



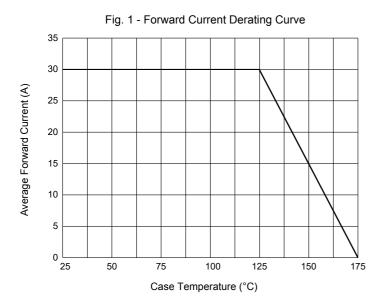
30 Amp Super Fast Recovery Rectifier 600 Volts

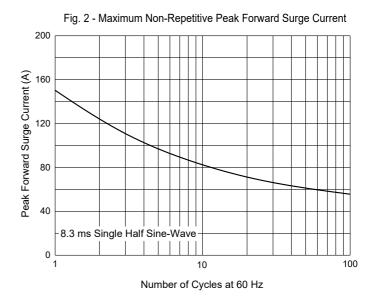


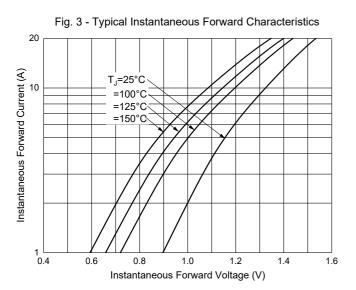
	DIMENSIONS					
DIM	INC	HES	MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	NOTE	
Α	0.787	0.866	20.00	22.00		
В	0.598	0.638	15.20	16.20		
С	0.185	0.208	4.70	5.30		
D	0.035	0.059	0.90	1.50		
E	0.059	0.094	1.50	2.40		
F	0.067	0.091	1.70	2.30		
J	0.019	0.031	0.48	0.80		
K	0.748	0.833	19.00	21.15		
Р	0.122	0.189	3.10	4.80		
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		

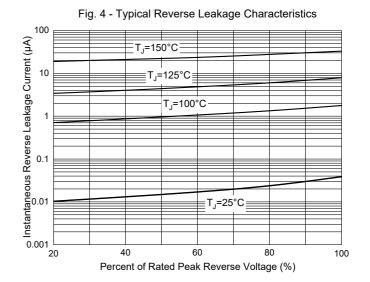


Curve Characteristics











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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