Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Frequency Operation
- High Surge Forward Current Capability
- Epoxy Meets UL 94 V-0 Flammability Rating
- Planar Structure Die and Soft Recovery Characteristics

30 Amp Ultra Fast Recovery Rectifier 600 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55ºC to +150ºC
- Storage Temperature Range: -55ºC to +150ºC
- Thermal Resistance: 1°C/W Junction to Case

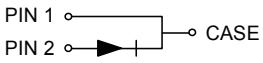
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3060BS	MUR3060BS	600V	420V	600V

Electrical Characteristics @ 25°C Unless Otherwise Specified

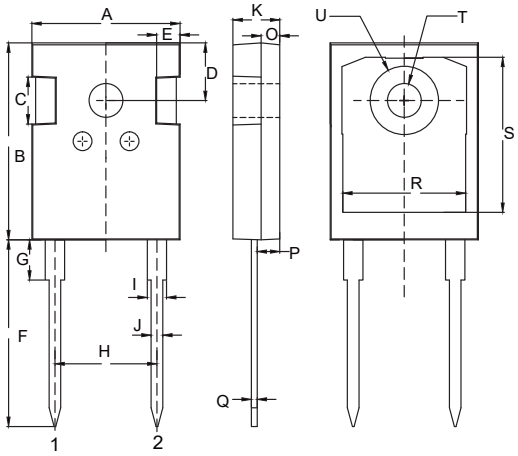
Average Rectified Forward Current	$I_{F(AV)}$	30A	T_C=100ºC	
Peak Forward Surge Current	I_{FSM}	300A	8.3ms,Half Sine	
Instantaneous Forward Voltage	V_F	1.50V(Typ.) 1.80V(Max.) 1.60V(Max.)	I_{FM}=30A;T_J=25ºC I_{FM}=30A;T_J=25ºC I_{FM}=30A ;T_J=125ºC	
Reverse Current At Rated DC Blocking Voltage	I_R	5μA(Max.) 200uA(Max.)	T_J=25ºC T_J=125ºC	
Current Squared Time	I^2t	373A²s	1ms≤t≤8.3ms, T_J=25ºC	
Reverse Recovery Time	t_{rr}	35ns(Typ.) 45ns(Max.)	I_F=0.5A; I_R=1.0A; I_{RR}=0.25A	
		75ns(Typ.) 125ns(Typ.)	T_J=25ºC T_J=125ºC	I_F=30A di_F/dt=-200A/μs V_R=400 V
Peak recovery current	I_{RRM}	4.9A(Typ.) 12.8A(Typ.)	T_J=25ºC T_J=125ºC	
Reverse recovery charge	Q_{rr}	180nC(Typ.) 780nC(Typ.)	T_J=25ºC T_J=125ºC	

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

Internal Structure



TO-247AD



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	0.602	0.642	15.30	16.30	
B	0.799	0.839	20.30	21.30	
C	0.189	0.205	4.80	5.20	
D	0.242		6.15		BSC.
E	0.091	0.106	2.30	2.70	
F	0.768	0.807	19.50	20.50	
G	-----	0.189	-----	4.80	
H	0.428		10.88		BSC.
I	0.075	0.087	1.91	2.21	
J	0.044	0.054	1.11	1.36	
K	0.189	0.205	4.80	5.20	
O	0.073	0.085	1.85	2.15	
P	0.087	0.103	2.21	2.61	
Q	0.020	0.030	0.51	0.75	
R	0.512	0.535	13.00	13.60	
S	0.640	0.663	16.25	16.85	
T	0.134	0.150	3.40	3.80	Φ
U	-----	0.287	-----	7.30	Φ

Curve Characteristics

Fig. 1 - Forward Current Derating Curve

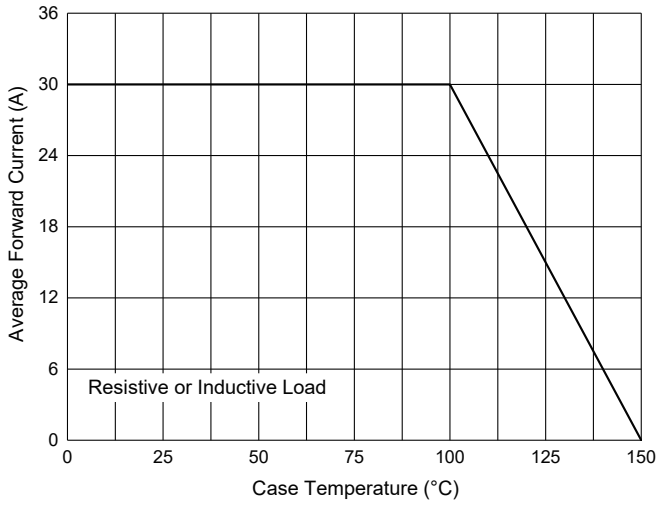


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

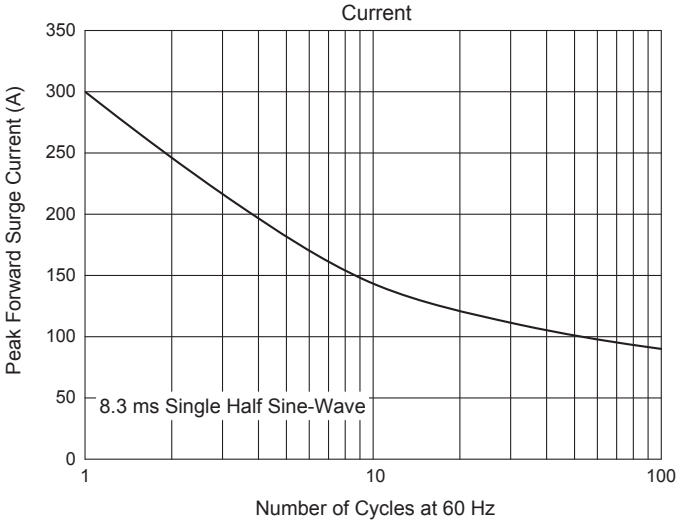


Fig. 3 - Typical Instantaneous Forward Characteristics

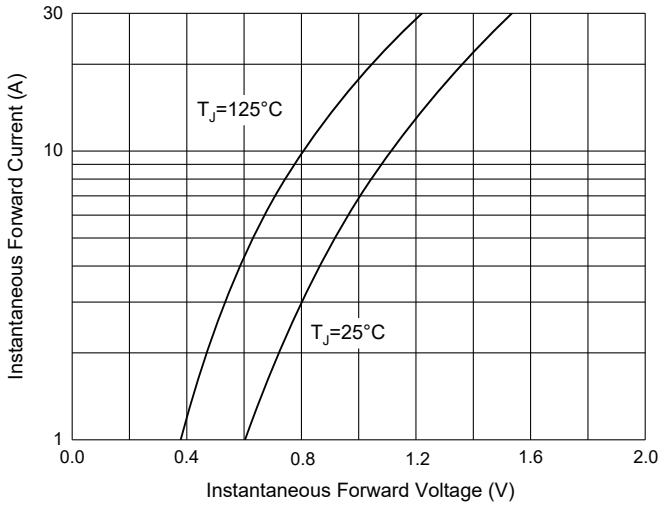
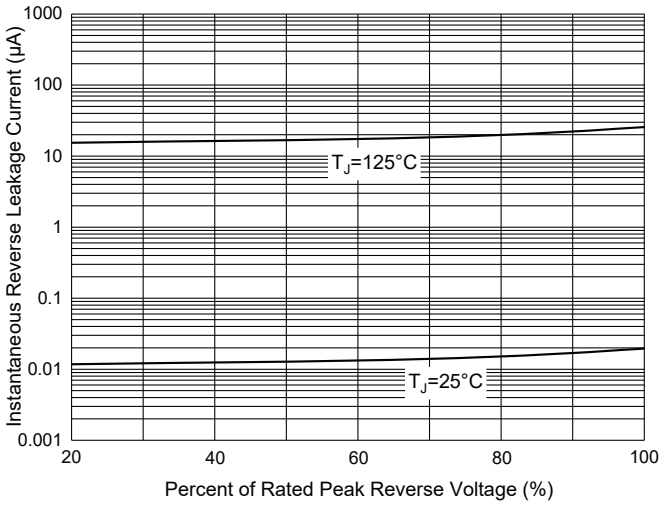


Fig. 4 - Typical Reverse Leakage Characteristics



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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