

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
- Moisture Sensitivity Level 1
- 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: 1.0°C/W Junction to Case

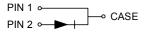
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MUR30120B	MUR30120B	1200V	840V	1200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I _{F(AV)}	30A	T _C =100°C
Peak Forward Surge Current	I _{FSM}	300A	8.3ms,Half Sine
Maximum Instantaneous Forward Voltage	V _F	2.4V	I _F =30A; T _A =25°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	10μA 500μA	T _A =25°C; T _A =125°C
Maximum Reverse Recovery Time	T _{RR}	75ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A

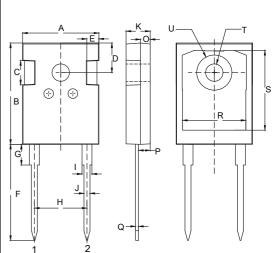
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex 7a.

Internal Structure



30 Amp Ultra Fast Recovery Rectifier 1200 Volts

TO-247AD



DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.602	0.642	15.30	16.30	
В	0.799	0.839	20.30	21.30	
С	0.189	0.205	4.80	5.20	
D	0.2	242	6.	15	BSC.
Е	0.091	0.106	2.30	2.70	
F	0.772	0.796	19.62	20.22	
G		0.169		4.30	
Н	0.428		10.88		BSC.
ı	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	
0	0.073	0.085	1.85	2.15	
Р	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	
Т	0.134	0.150	3.40	3.80	Ф
U		0.287		7.30	Ф



Curve Characteristics

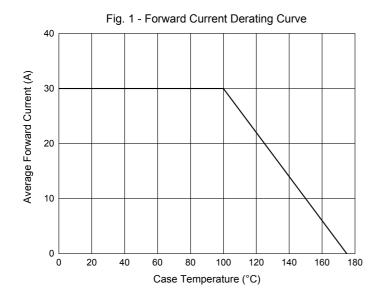
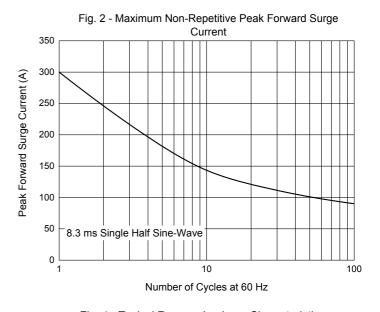
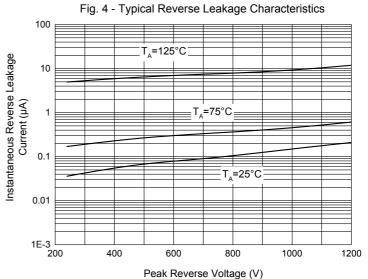


Fig. 3 - Typical Instantaneous Forward Characteristics 100 Instantaneous Forward Current (A) T_A=25°C 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4

Instantaneous Forward Voltage (V)







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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