

Features

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

30 Amp Super Fast Recovery Rectifier 600 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance(per leg): 0.5°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR3060A	MUR3060A	600V	420V	600V

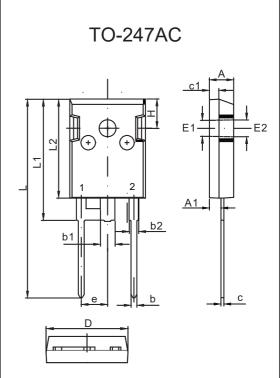
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	30A	T _C =110°C
Peak Forward Surge Current	I _{FSM}	200A	8.3ms, Half Sine
Peak Repetitive Reverse Surge Current(2us-1khz)	I _{RRM}	0.5A	
Maximum Rate of Voltage Change	dv/dt	10000V/us	at Rated VR
Forward Voltage	V_{F}	1.35V(Typ) 1.70V(Max) 1.20V(Max)	I_F =30A; T_J =25°C I_F =30A; T_J =25°C I_F =30A; T_J =125°C
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	0.01mA 0.2mA	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	T_RR	50ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A

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

Internal Structure





DIMENSIONS					
DIM	INCHES		MM		NOTE
DIIVI	MIN	MAX	MIN	MAX	NOTE
Α	0.185	0.209	4.70	5.30	
A1	0.087	0.102	2.20	2.60	
b	0.035	0.059	0.90	1.50	
b1	0.110	0.126	2.80	3.20	
b2	0.067	0.090	1.70	2.30	
С	0.020	0.028	0.50	0.70	
c1	0.071	0.087	1.80	2.20	
D	0.602	0.626	15.30	15.90	
E1	0.138 REF		3.500 REF		
E2	0.142	REF	3.600	REF	
L	1.583	1.646	40.20	41.80	
L1	0.976	0.988	24.80	25.10	
L2	0.799	0.811	20.30	20.60	
е	0.215 TYP		5.450 TYP		
Н	0.236 REF		6.000	REF	



Curve Characteristics

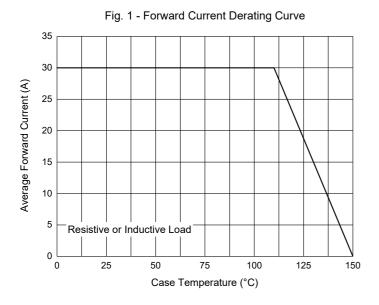


Fig. 3 - Typical Reverse Leakage Characteristics

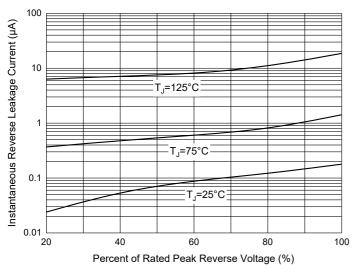


Fig. 2 - Typical Instantaneous Forward Characteristics 50 20 Instantaneous Forward Current (A) 10 5 2 0.5 0.2 $T_J=25$ °C 8.0 1.0 1.2 1.8 2.0

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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