

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- High Efficiency
- Low Reverse Leakage
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating

10 Amp Super Fast Recovery Rectifier 1000 Volts

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Thermal Resistence: 1.0°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MUR10100A	MUR10100A	1000V	700V	1000V

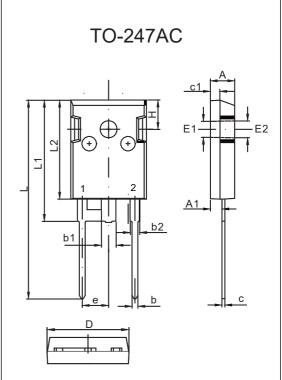
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I _{F(AV)}	10A	T _C =125°C
Peak Forward Surge Current	I _{FSM}	110A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V _F	2.0V(Typ) 2.4V(Max) 2.0V(Max)	I _F =10A;T _J =25°C I _F =10A;T _J =25°C I _F =10A;T _J =125°C
Maximum 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}	65ns	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		
с1	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

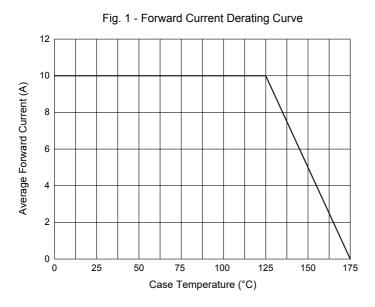
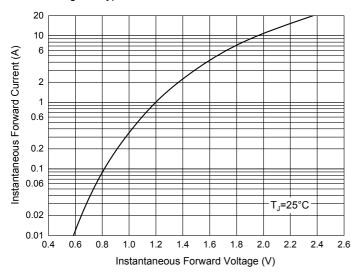


Fig. 3 - Typical Instantaneous Forward Characteristics



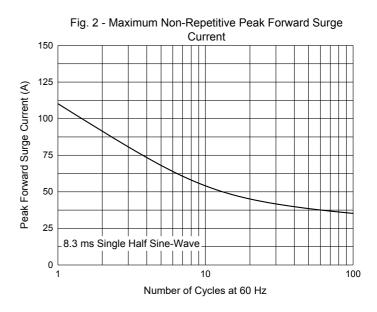
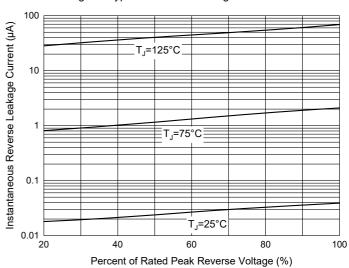


Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-BP	Tube:30pcs/Tube, 360pcs/Box,1.8K/Ctn;		

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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