

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

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

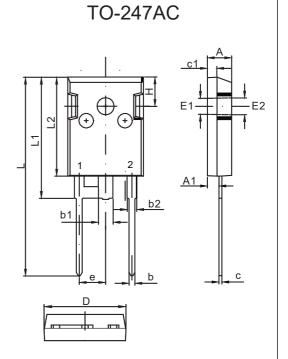
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I _{F(AV)}	10A	T _C =125⁰C
Peak Forward Surge Current	I _{FSM}	110A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V _F	2.0V(Typ) 2.4V(Max) 2.0V(Max)	I _F =10A;T _J =25°C I _F =10A;T _J =25°C I _F =10A;T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	0.01mA 0.2mA	Tյ=25⁰C; Tյ=125⁰C
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

PIN 1 OCASE

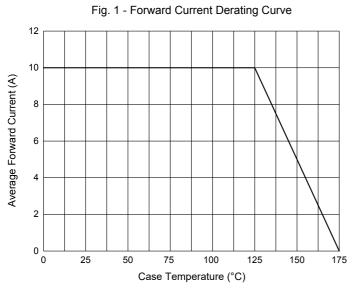


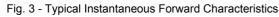


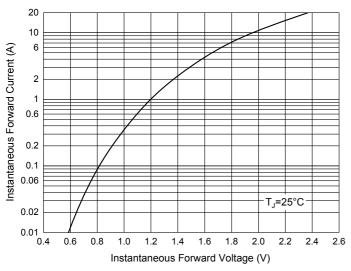
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.185	0.209	4.70	5.30	
A1	0.087	0.102	2.20	2.60	
b	0.035	0.059	0.90	1.50	
b1	0.110	0.126	2.80	3.20	
b2	0.067	0.090	1.70	2.30	
С	0.020	0.028	0.50	0.70	
c1	0.071	0.087	1.80	2.20	
D	0.602	0.626	15.30	15.90	
E1	0.138	B REF	3.500) REF	
E2	0.142	2 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	8 REF	6.000) REF	

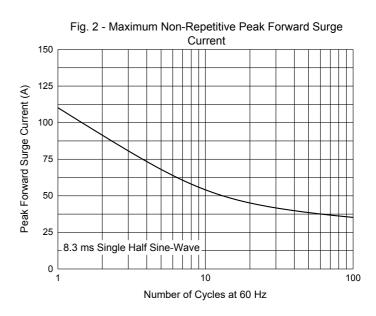


Curve Characteristics

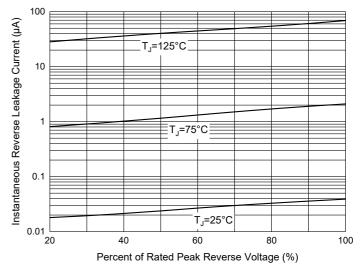














Ordering Information

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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