

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
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Thermal Resistance: 3°C/W Junction to Case

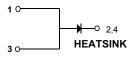
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURB10120C	1200V	840V	1200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

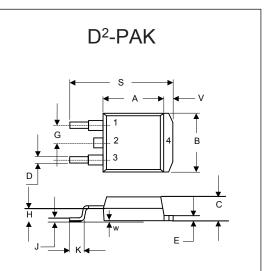
Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% duty cycle	I _{F(AV)}	10A	T _C =110⁰C
Peak Forward Surge Current	I _{FSM}	110A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V _F	1.9V(typ.) 2.4V(max) 2.0V(max)	I _F =10A;T _J =25°C I _F =10A;T _J =25°C I _F =10A;T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	0.01mA 1.0mA	T _J =25°C; T _J =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 Notes 7a.

Internal Structure

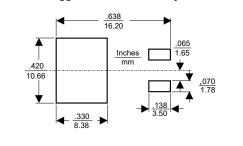


10 Amp Super Fast Recovery Rectifier 1200 Volts



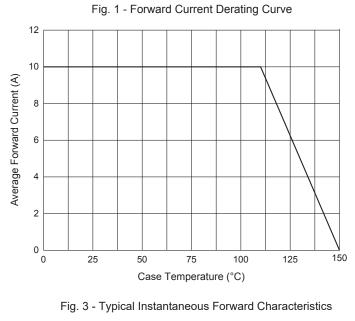
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
А	0.331	0.370	8.40	9.40	
В	0.378	0.417	9.60	10.60	
С	0.165	0.189	4.20	4.80	
D	0.027	0.037	0.68	0.94	
Е	0.045	0.055	1.14	1.40	
G	0.010		2.54		TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
Κ	0.071	0.131	1.80	3.32	
S	0.575	0.625	14.60	15.87	
V	0.042	0.058	1.07	1.47	
W	0.000	0.010	0.00	0.25	

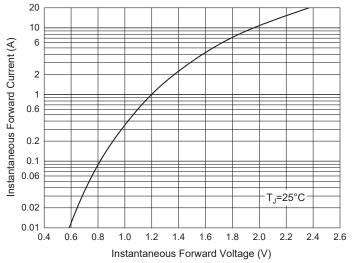
Suggested Solder Pad Layout





Curve Characteristics





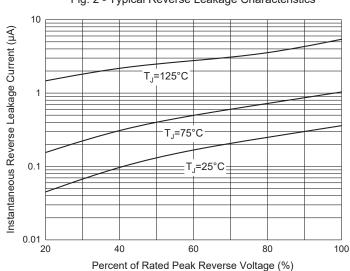


Fig. 2 - Typical Reverse Leakage Characteristics



Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 800pcs/Reel	
Part Number-BP	Tube: 1Kpcs/Box	

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

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