

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
- Typical Thermal Resistance: 2°C/W Junction to Case

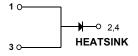
MCC Part Number	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURB15120C	1200V	840V	1200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current (Rated VR-20Khz Square Wave) - 50% Duty Cycle	I _{F(AV)}	15A	T _C =110°C
Peak Forward Surge Current	I _{FSM}	150A	8.3ms,Half Sine Wave
Maximum Instantaneous Forward Voltage	V _F	1.9V(Typ) 2.4V(Max) 1.9V(Max)	I _F =15A;T _J =25°C I _F =15A;T _J =25°C I _F =15A;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

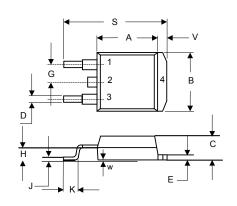
Note:1. High Temperature Solder Exemptions Applied, See EU Directive Annex Notes 7a.

Internal Structure



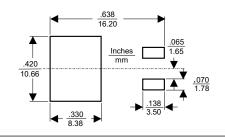
15 Amp Super Fast Recovery Rectifier 1200 Volts

D²-PAK



DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	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	
E	0.045	0.055	1.14	1.40	
G	0.0)10	2.	54	TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
K	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

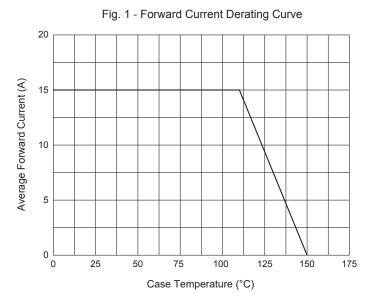


Fig. 3 - Typical Instantaneous Forward Characteristics

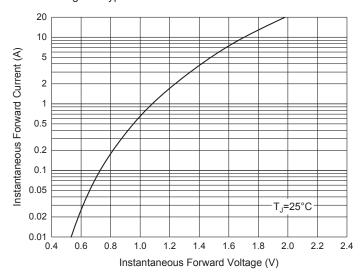


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge

Current

175

150

175

150

175

100

Pure Non-Repetitive Peak Forward Surge

Current

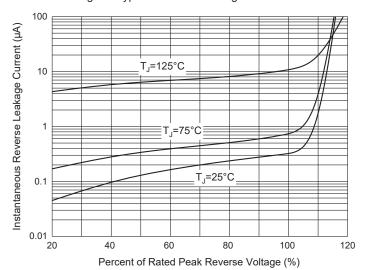
175

8.3 ms Single Half Sine-Wave

1 10 100

Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing		
Part Number-TP	Tape&Reel: 800pcs/Reel		
Part Number-BP	Tube: 5Kpcs/Ctn		

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

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