

Features

- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1
- Low Switching Losses and High Efficiency
- Low Reverse Leakage
- Ultrafast Recovery Time
- Planar Structure Die and Soft Recovery Characteristics

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Maximum Thermal Resistance: 2°C/W Junction to Case

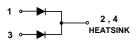
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MURSB1020CTA	MURSB1020CTA	200V	140V	200V

Electrical Characteristics @ 25°C Unless Otherwise Specified

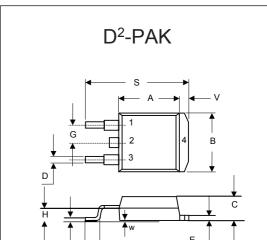
Average Rectified Forward Current	I _{F(AV)}	10A	T _C = 130°C
Peak Forward Surge Current	I _{FSM}	70A	8.3ms,Half Sine
Instantaneous Forward Voltage	V _F	0.90V(Typ) 1.0V(Max) 0.85V(Max)	I _F =5A; T _J =25°C I _F =5A; T _J =25°C I _F =5A; T _J =125°C
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5μΑ 50μΑ	T _J =25°C; T _J =125°C
Maximum Reverse Recovery Time	t _{rr}	35ns	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A
Typical Junction Capacitance	CJ	40pF	Measured at 1.0MHz, V _R =4.0V

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

Internal Structure

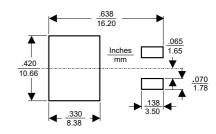


10 Amp FRED Rectifiers 200 Volts



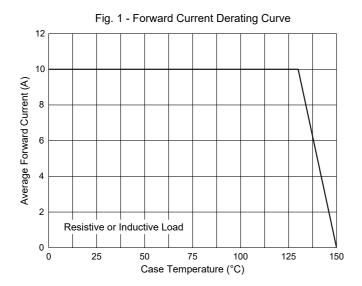
DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOTE		
Α	0.331	0.370	8.40	9.40			
В	0.378	0.417	9.60	10.60			
С	0.165	0.189	4.20	4.80			
D	0.027	0.037	0.68	0.94			
Е	0.045	0.055	1.14	1.40			
G	0.010		2.54		TYP.		
Η	0.096	0.134	2.43	3.40			
J	0.011	0.025	0.28	0.64			
K	0.071	0.131	1.80	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			

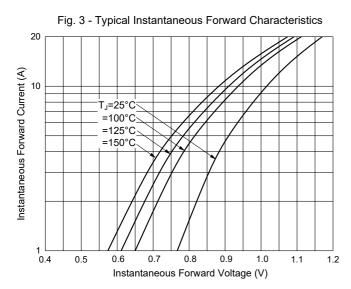
Suggested Solder Pad Layout

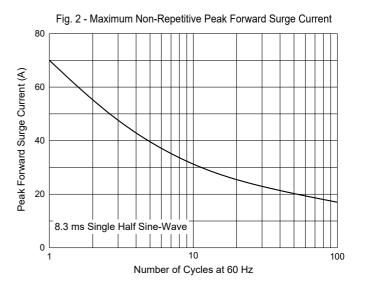


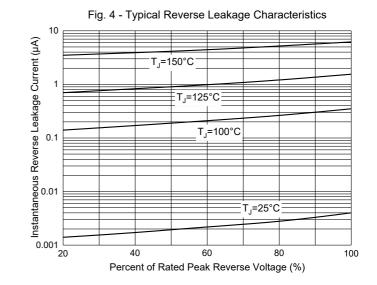


Curve Characteristics









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Ordering Information

Device	Packing	
Part Number-TP	Tape&Reel: 800pcs/Reel	
Part Number-BP	Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton	

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

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