

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

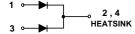
- Operating Junction Temperature Range: -55°C to +175°C
- Storage Temperature Range: -55°C to +175°C
- Maximum Thermal Resistance: 2°C/W Junction to Case

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	DMC	Maximum DC Blocking Voltage
MURSB2020CTA	MURSB2020CTA	200V	140V	200V

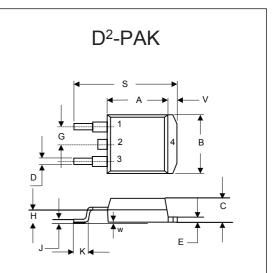
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Rectified Forward Current	I _{F(AV)}	20A	T _C =135⁰C		
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Hal	f Sine	
Instantaneous Forward Voltage	V _F	0.92V(Typ) 1.0V(Max) 0.86V(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	5uA 50uA	T _J =25°C; T _J =125°C		
Typical Junction Capacitance	CJ	150pF	Measured at 1.0MHz, V _R =4.0V		
Reverse Recovery	t _{rr}	25ns(Typ.) 35ns(Max.)	I _F =0.5A; I _R =1.0A; I _{RR} =0.25A		
Time		35ns(Typ.) 50ns(Typ.)	T _J =25⁰C T _J =125⁰C	1 - 10 4	
Peak recovery current			T _J =25°C T _J =125°C	I _F =10A di _F /dt=-200A/µs - V _R =100 V	
Reverse recovery charge Q _{rr}		90nC(Typ.) 200nC(Typ.)	T _J =25°C T _J =125°C		

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



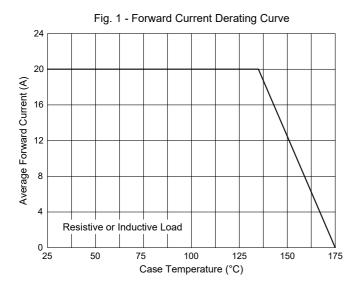
20 Amp FRED Rectifiers 200 Volts



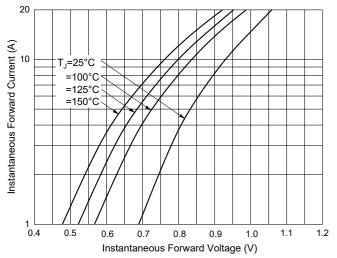
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.331	0.370	8.40	9.40	
В	0.378	0.417	9.60	10.60	
С	0.165	0.189	4.20	4.80	
D	0.027	0.037	0.68	0.94	
E	0.045	0.055	1.14	1.40	
G	0.0	010	2.	54	TYP.
Н	0.096	0.134	2.43	3.40	
J	0.011	0.025	0.28	0.64	
К	0.071	0.131	1.80	3.32	
S	0.575	0.625	14.60	15.87	
V	0.042	0.058	1.07	1.47	
W	0.000	0.010	0.00	0.25	

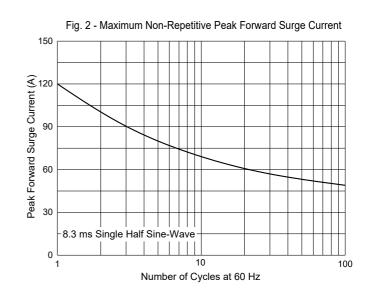


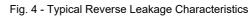
Curve Characteristics

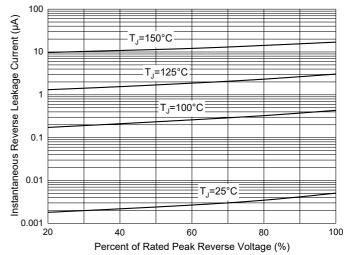














Ordering Information

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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