

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

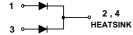
MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	Maximum RMS Voltage	Maximum DC Blocking Voltage
MURSB2040CTA	MURSB2040CTA	400V	280V	400V

Electrical Characteristics @ 25°C Unless Otherwise Specified

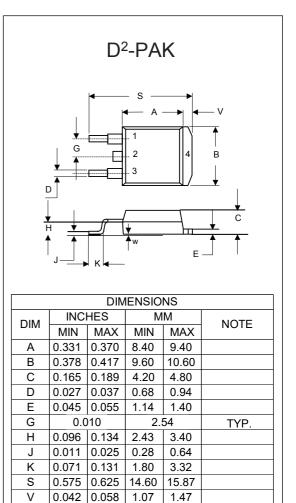
		1	-		
Average Rectified Forward Current	I _{F(AV)}	20A	T _C =125°C		
Peak Forward Surge Current	I _{FSM}	120A	8.3ms,Hal	f Sine	
Instantaneous Forward Voltage	V _F	1.10V(Typ) 1.25V(Max) 1.05V(Max)	I _F =10A; T _J =25°C I _F =10A; T _J =25°C I _F =10A; T _J =125°C		
Maximum Reverse Current At Rated DC Blocking Voltage	I _R	5uA 50uA	T _J =25°C; T _J =125°C		
Typical Junction Capacitance	CJ	50pF	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		33ns(Typ.) 55ns(Typ.)	T _J =25⁰C T _J =125⁰C	1 -104	
Peak recovery current	I _{RRM}	4.1A(Typ.) 8.1A(Typ.)	T _J =25°C T _J =125°C	I _F =10A di _F /dt=-200A/µs _ V _R =200 V	
Reverse recovery charge	Q _{rr}	68nC(Typ.) 225nC(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 400 Volts



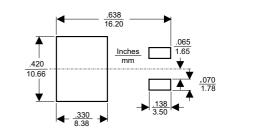
Suggested Solder Pad Layout

0.00

0.25

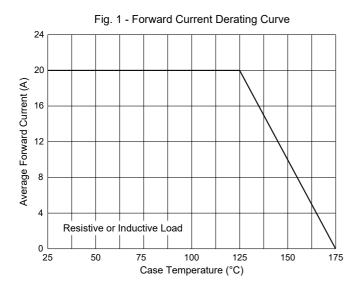
0.000 0.010

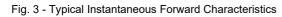
W

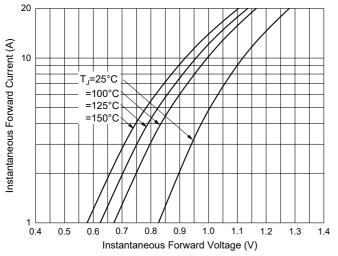


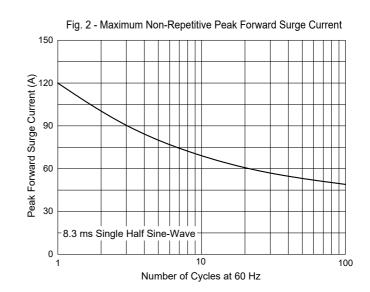


Curve Characteristics

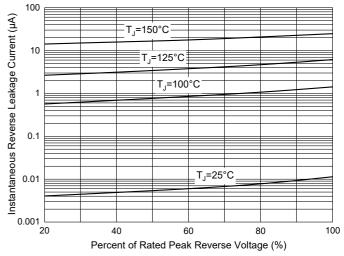














Ordering Information

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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