

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

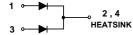
| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|---------------------------|-----------------------------------|
| MURSB2040CTA | MURSB2040CTA | 400V | 280V | 400V |

Electrical Characteristics @ 25°C Unless Otherwise Specified

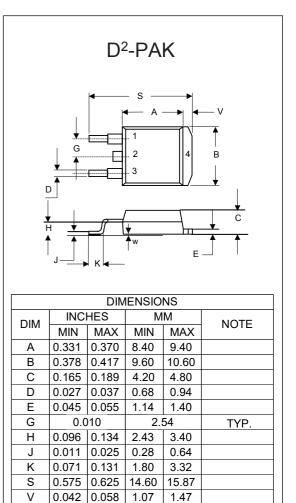
| | | 1 | - | | |
|--|--------------------|--|--|--|--|
| Average Rectified Forward Current | I _{F(AV)} | 20A | T _C =125°C | | |
| Peak Forward Surge Current | I _{FSM} | 120A | 8.3ms,Hal | f Sine | |
| Instantaneous Forward Voltage | V _F | 1.10V(Typ) 1.25V(Max) 1.05V(Max) | I _F =10A; T _J =25°C 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



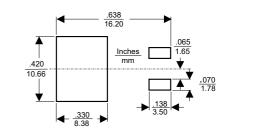
Suggested Solder Pad Layout

0.00

0.25

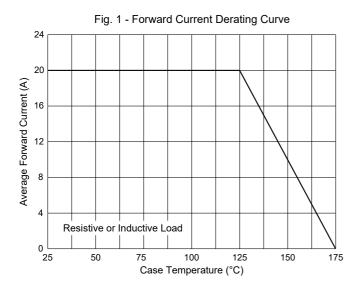
0.000 0.010

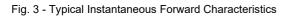
W

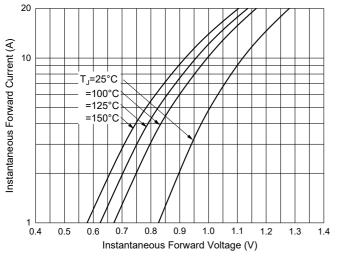


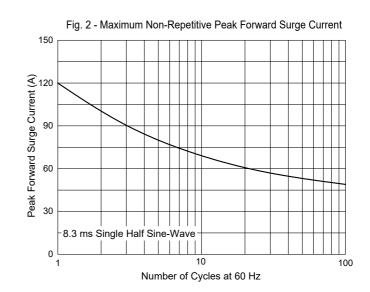


Curve Characteristics

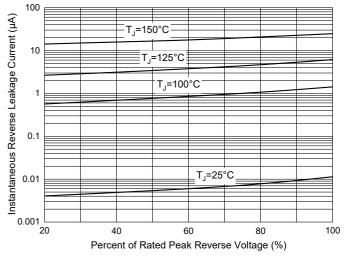














Ordering Information

| 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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