

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
- 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

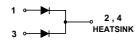
| | MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|---|--------------------|-------------------|---|---------------------------|-----------------------------------|
| I | MURS2040CTA | MURS2040CTA | 400V | 280V | 400V |

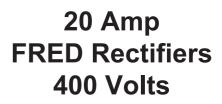
Electrical Characteristics @ 25°C Unless Otherwise Specified

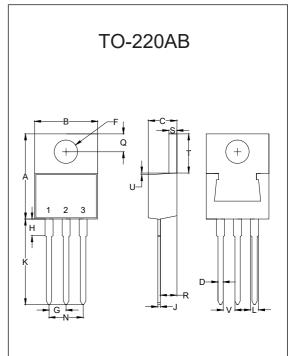
| Average Rectified Forward Current | I _{F(AV)} | 20A | T _C =125⁰C | |
|--|--------------------|--|--|--|
| Peak Forward Surge Current | I _{FSM} | 120A | 8.3ms,Half Sine | |
| Instantaneous Forward Voltage | V _F | 1.10V(Typ) 1.25V(Max) 1.05V(Max) | I _F =10A; T _J =25°C I _F =10A; T _J =25°C I _F =10A; T _J =125°C | |
| Maximum Reverse Current At Rated DC Blocking Voltage | I _R | 5uA 50uA | T」=25⁰C; T」=125⁰C | |
| 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 =25°C T _J =125°C | 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



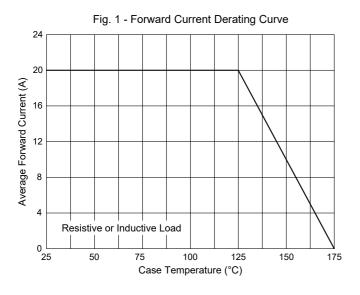


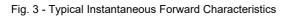


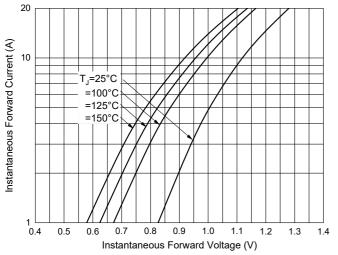
| DIMENSIONS | | | | | | |
|------------|--------|-------|-------|-------|------|--|
| DIM | INCHES | | MM | | NOTE | |
| | MIN | MAX | MIN | MAX | NOTE | |
| А | 0.560 | 0.625 | 14.22 | 15.88 | | |
| В | 0.380 | 0.429 | 9.65 | 10.90 | | |
| С | 0.140 | 0.201 | 3.56 | 5.10 | | |
| D | 0.020 | 0.045 | 0.51 | 1.14 | | |
| F | 0.131 | 0.170 | 3.34 | 4.31 | Φ | |
| G | 0.079 | 0.121 | 2.01 | 3.07 | | |
| Н | | 0.250 | | 6.35 | | |
| J | 0.011 | 0.025 | 0.28 | 0.64 | | |
| Κ | 0.500 | 0.580 | 12.70 | 14.73 | | |
| L | 0.045 | 0.060 | 1.14 | 1.52 | | |
| Ν | 0.158 | 0.242 | 4.02 | 6.14 | | |
| Q | 0.087 | 0.135 | 2.22 | 3.43 | | |
| R | 0.080 | 0.126 | 2.04 | 3.19 | | |
| S | 0.045 | 0.055 | 1.14 | 1.39 | | |
| Т | 0.230 | 0.270 | 5.84 | 6.86 | | |
| U | | 0.050 | | 1.27 | | |
| V | 0.045 | | 1.15 | | | |

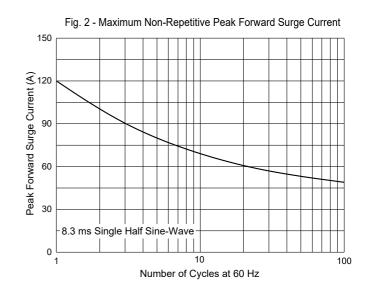


Curve Characteristics

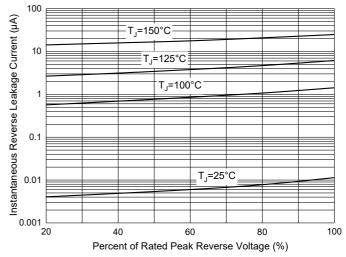














Ordering Information

| Device | Packing | |
|----------------|--|--|
| Part Number-BP | Bulk:50pcs/Tube,1Kpcs/Box,5Kpcs/Carton | |

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

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