

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note2) ("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

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 |
|--------------------|-------------------|---|---------------------------|-----------------------------------|
| MURSB1520 | MURSB1520 | 200V | 140V | 200V |

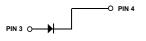
Electrical Characteristics @ 25°C Unless Otherwise Specified

| Average Rectified Forward Current | I _{F(AV)} | 15A | T _C = 145°C |
|--|--------------------|--|---|
| Peak Forward Surge Current | I _{FSM} | 200A | 8.3ms,Half Sine |
| Maximum Instantaneous Forward Voltage | V _F | 0.94V(Typ) 1.02V(Max) 0.90V(Max) | I _F =15A;T _J =25°C I _F =15A;T _J =25°C I _F =15A;T _J =125°C |
| Maximum Reverse Current At Rated DC Blocking Voltage | I _R | 10μA 100μA | 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 |

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

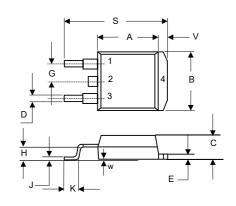
2. High temperature solder exemption applied, see EU directive annex 7a.

Internal Structure



15 Amp FRED Rectifiers 200 Volts

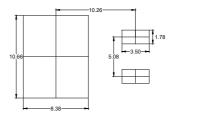
D²-PAK



| | 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 | | | |
| C | 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 | 0.10 | | 2.54 | | TYP. | | |
| Ι | 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 | | | |

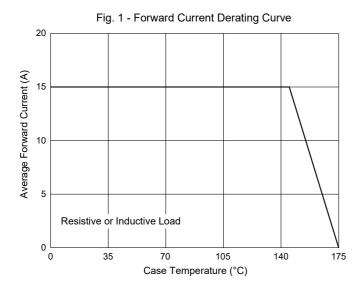
Suggested Solder Pad Layout

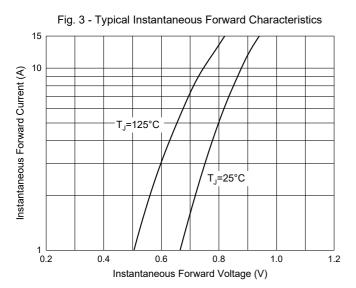
Unit:m

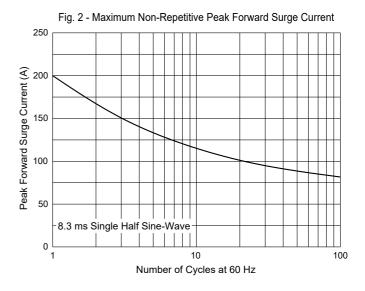


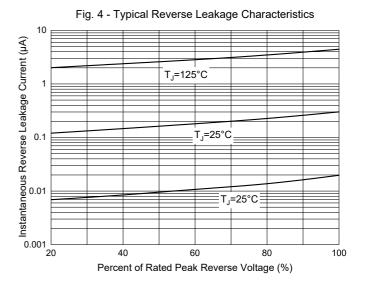


Curve Characteristics









Rev.3-4-08202023 2/3 MCCSEMI.COM



Ordering Information

| Device | Packing | | |
|----------------|------------------------|--|--|
| Part Number-TP | Tape&Reel: 800pcs/Reel | | |
| Part Number-BP | Tube: 5Kpcs/Ctn | | |

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