

## Features

- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

## Maximum Ratings

- Operating Junction Temperature Range: -65°C to +175°C
- Storage Temperature Range: -65°C to +175°C
- Typical Thermal Resistance: 13°C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|-----------------|----------------|--|---------------------|-----------------------------|
| MURS2D          | MURS2D         | 200V                                   | 140V                | 200V                        |

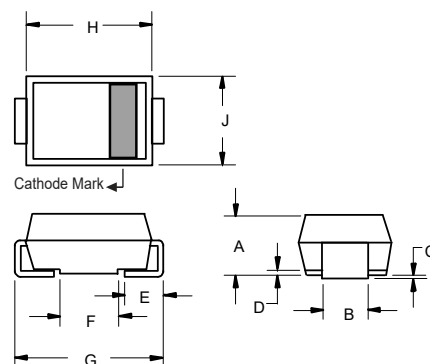
## Electrical Characteristics @ 25°C Unless Otherwise Specified

|   |             |                           |   |
|---|-------------|---------------------------|---|
| Average Forward Current                                 | $I_{F(AV)}$ | 2.0A                      | $T_L=110^\circ\text{C}$   |
| Peak Forward Surge Current                              | $I_{FSM}$   | 50A                       | 8.3ms, Half Sine  |
| Maximum Instantaneous Forward Voltage                   | $V_F$       | 0.92V<br>0.77V            | $I_{FM}=2.0A, T_J=25^\circ\text{C};$<br>$I_{FM}=2.0A, T_J=150^\circ\text{C}$            |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | $I_R$       | 2.0 $\mu$ A<br>50 $\mu$ A | $T_J=25^\circ\text{C};$<br>$T_J=150^\circ\text{C}$                                      |
| Maximum Reverse Recovery Time                           | $T_{RR}$    | 25ns<br>35ns              | $I_F=0.5A; I_R=1.0A,$<br>$I_{rr}=0.25A$<br>$I_F=1.0A; di/dt = 50 \text{ A}/\mu\text{s}$ |

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

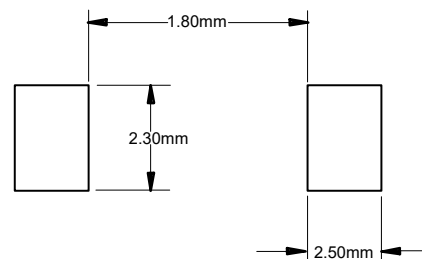
# 2 Amp Super Fast Recovery Rectifier 200 Volts

## SMB (DO-214AA)



| DIM | DIMENSIONS |       |      |      | NOTE |
|-----|------------|-------|------|------|------|
|     | INCHES     |       | MM   |      |      |
|     | MIN        | MAX   | MIN  | MAX  |      |
| A   | 0.079      | 0.103 | 2.00 | 2.62 |      |
| B   | 0.075      | 0.087 | 1.91 | 2.21 |      |
| C   | 0.002      | 0.008 | 0.05 | 0.20 |      |
| D   | 0.006      | 0.012 | 0.15 | 0.31 |      |
| E   | 0.030      | 0.060 | 0.76 | 1.52 |      |
| F   | 0.065      | 0.091 | 1.65 | 2.32 |      |
| G   | 0.200      | 0.220 | 5.08 | 5.59 |      |
| H   | 0.160      | 0.191 | 4.06 | 4.85 |      |
| J   | 0.130      | 0.155 | 3.30 | 3.94 |      |

### Suggested Solder Pad Layout



**Curve Characteristics**

Fig. 1 - Forward Current Derating Curve

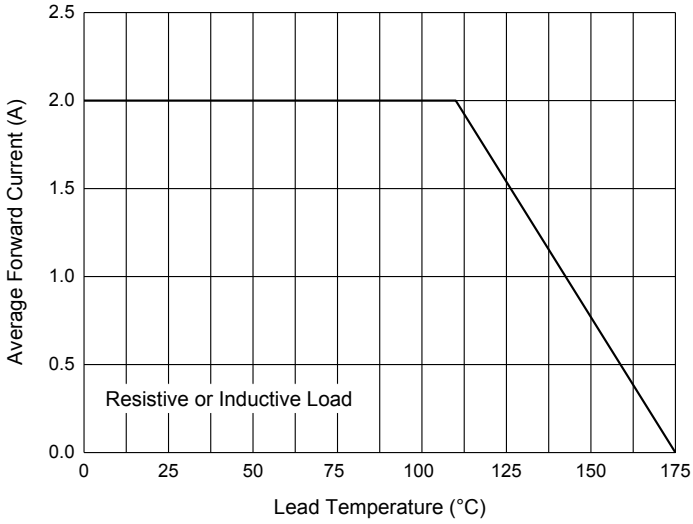


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge Current

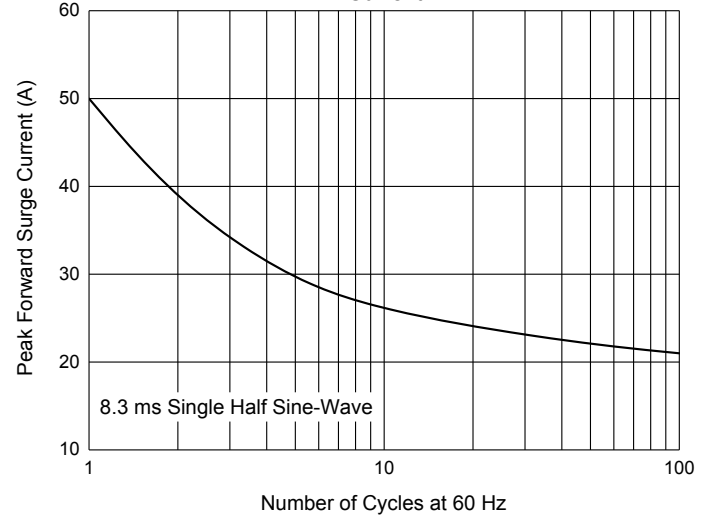


Fig. 3 - Typical Instantaneous Forward Characteristics

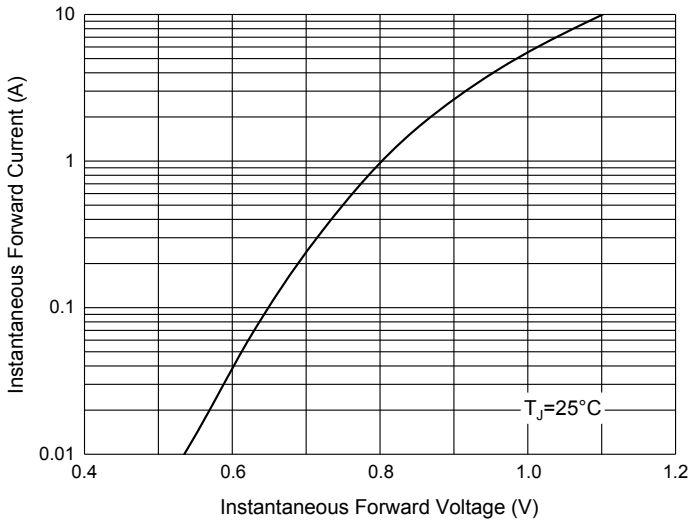
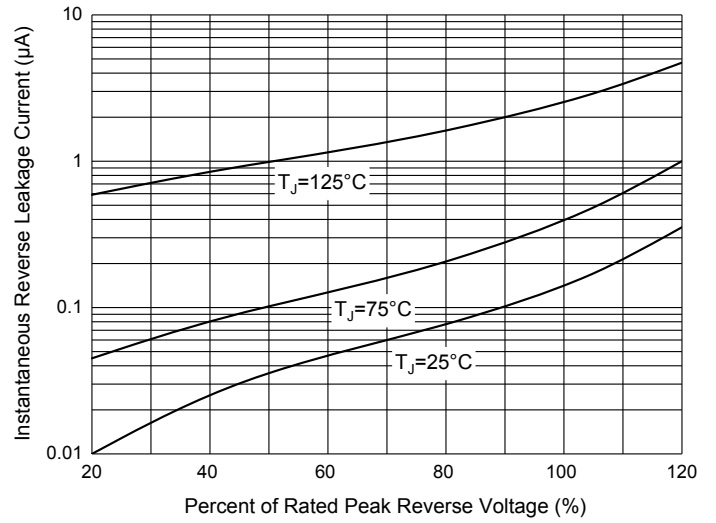


Fig. 4 - Typical Reverse Leakage Characteristics



## Ordering Information

| Device    | Packing               |
|-----------|-----------------------|
| MURS2D-TP | Tape&Reel: 3Kpcs/Reel |

Note : Adding "-HF" Suffix For Halogen Free, eg. MURS2D-TP-HF

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