

Features

- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant (Note2) ("P"Suffix Designates Compliant. See Ordering Information)
- Ultra Fast Switching For High Efficiency
- For Surface Mounted Applications
- High Current Capability
- Low Reverse Leakage Current
- Epoxy Meets UL 94 V-0 Flammability Rating
- Moisture Sensitivity Level 1

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +175°C
- Maximum Thermal Resistance: 16 °C/W Junction to Lead

| MCC Part Number | Device Marking | Maximum Recurrent Peak Reverse Voltage | Maximum RMS Voltage | Maximum DC Blocking Voltage |
|--------------------|-------------------|---|---------------------------|-----------------------------------|
| MURS3JAFL | UR3J | 600V | 420V | 600V |



| Average Forward Current | I _{F(AV)} | 3.0A | T _L =75⁰C |
|--|--------------------|-------|---|
| Peak Forward Surge Current | I _{FSM} | 100A | 8.3ms,Half Sine |
| Maximum Instantaneous Forward Voltage | V_{F} | 1.7V | I _{FM} =3.0A; T _J =25⁰C |
| Maximum DC Reverse Current At Rated DC Blocking Voltage | I _R | 5.0μΑ | Tj=25⁰C |
| Maximum Reverse Recovery Time | t _{rr} | 35ns | I _F =0.5A; I _R =1.0A; I _{RR} =0.25A |
| Typical Junction Capacitance | CJ | 45pF | Measured at 1.0MHz, V _R =4.0V |

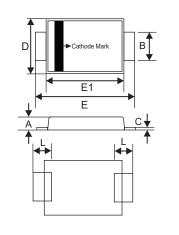
Note:

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

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

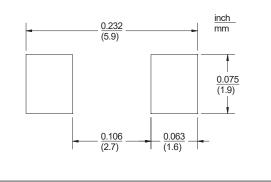
3.0 Amp Super Fast Rectifiers 600 Volts

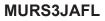
DO-221AC(SMA-FL)



| DIMENSIONS | | | | | |
|------------|--------|-------|------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | NOTE |
| А | 0.035 | 0.049 | 0.90 | 1.25 | |
| В | 0.049 | 0.065 | 1.25 | 1.65 | |
| С | 0.004 | 0.016 | 0.10 | 0.40 | |
| D | 0.089 | 0.116 | 2.25 | 2.95 | |
| E | 0.173 | 0.220 | 4.40 | 5.60 | |
| E1 | 0.126 | 0.181 | 3.20 | 4.60 | |
| L | 0.020 | 0.059 | 0.50 | 1.50 | |

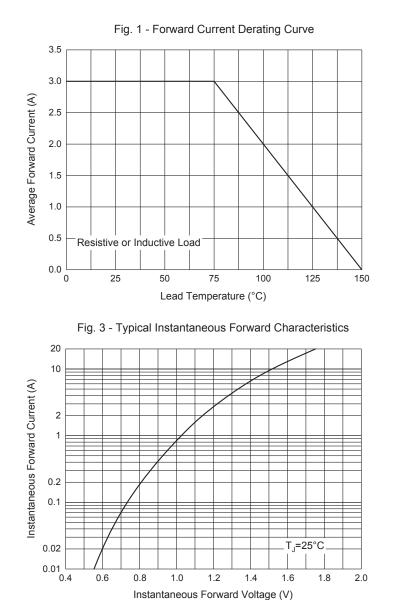
SUGGESTED SOLDER PAD LAYOUT

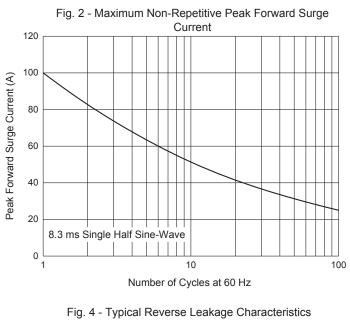


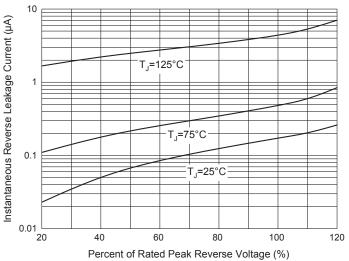


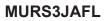


Curve Characteristics











Ordering Information

| Device | Packing | | |
|----------------|------------------------|--|--|
| Part Number-TP | Tape&Reel: 10Kpcs/Reel | | |

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