

Fast Recovery Epi Diodes

Reverse Voltage – 600 V

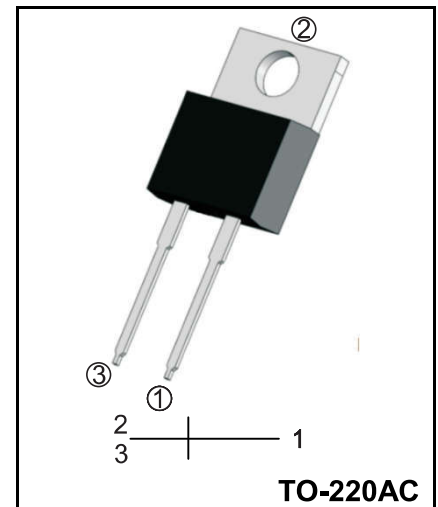
Forward Current – 16 A

Features

- ◆ High frequency operation
- ◆ High surge forward current capability
- ◆ High purity, high temperature epoxy encapsulation for enhanced mechanical strength and moisture resistance
- ◆ Guard ring for enhanced ruggedness and long term reliability
- ◆ Solder dip 275 °C max. 7s, per JESD 22-B106

Mechanical Data

- ◆ Case: TO-220AC
- ◆ Approx. Weight: 1.9g (0.067oz)
- ◆ Lead free finish, RoHS compliant
- ◆ Case Material: “Green” molding compound, UL flammability classification 94V-0, “Halogen-free”.



Maximum Ratings (Per Leg) At Ta=25°C Unless Otherwise Specified

| Parameter | Symbols | MUR1660AC | Units |
|---|-----------------|---------------------------------------|---------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 600 | V |
| Maximum RMS voltage | V_{RMS} | 420 | V |
| Maximum DC Blocking Voltage | V_{DC} | 600 | V |
| Maximum Average Forward Rectified Current | $I_{F(AV)}$ | 16 | A |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | I_{FSM} | 200 | A |
| Instantaneous forward voltage at 16A | V_F | 1.6 | V |
| Maximum instantaneous reverse current at rated DC blocking voltage | I_R | 10 500 | μA |
| | | $T_a=25^\circ C$ $T_a=125^\circ C$ | |
| Maximum Reverse Recovery Time NOTE 1 | t_{rr} | 35 | nS |
| Maximum Thermal Resistance Junction To Case | $R_{\theta JC}$ | 4 | °C/W |
| Operation Junction Temperature and Storage Temperature | T_J, T_{STG} | -55 ~ +150 | °C |

Note1: Reverse recovery test conditions $I_F=0.5A, I_R=1.0A, I_{rr}=0.25A$

Ratings and Characteristic Curves

Fig.1 Typical Forward Current Derating Curve

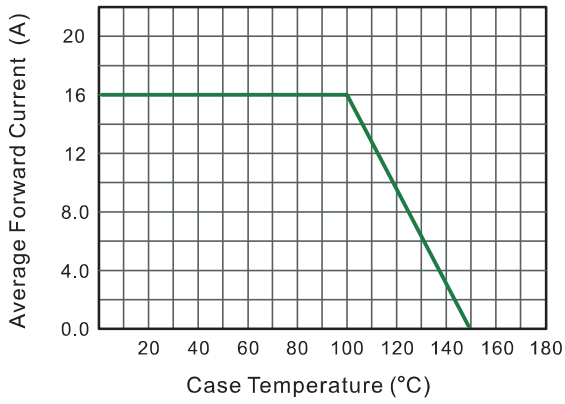


Fig.2 Typical Reverse Characteristics

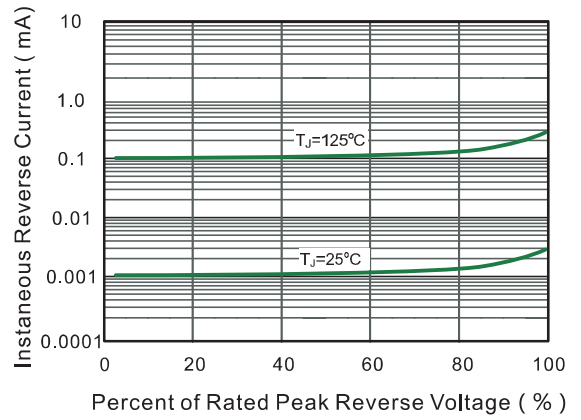


Fig.3 Typical Forward Characteristic

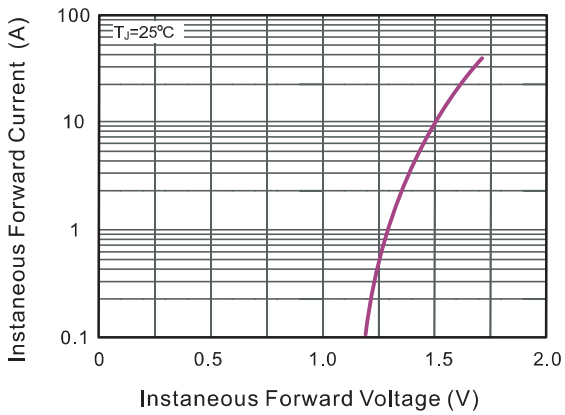
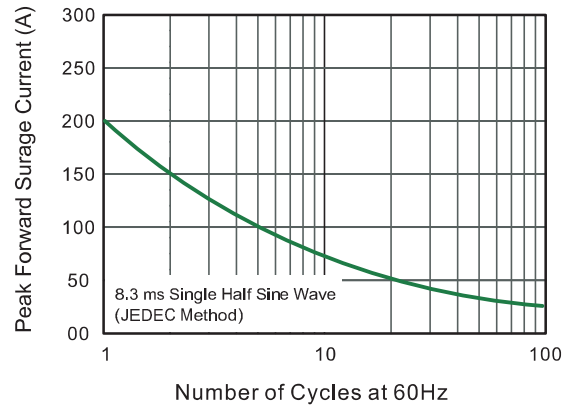


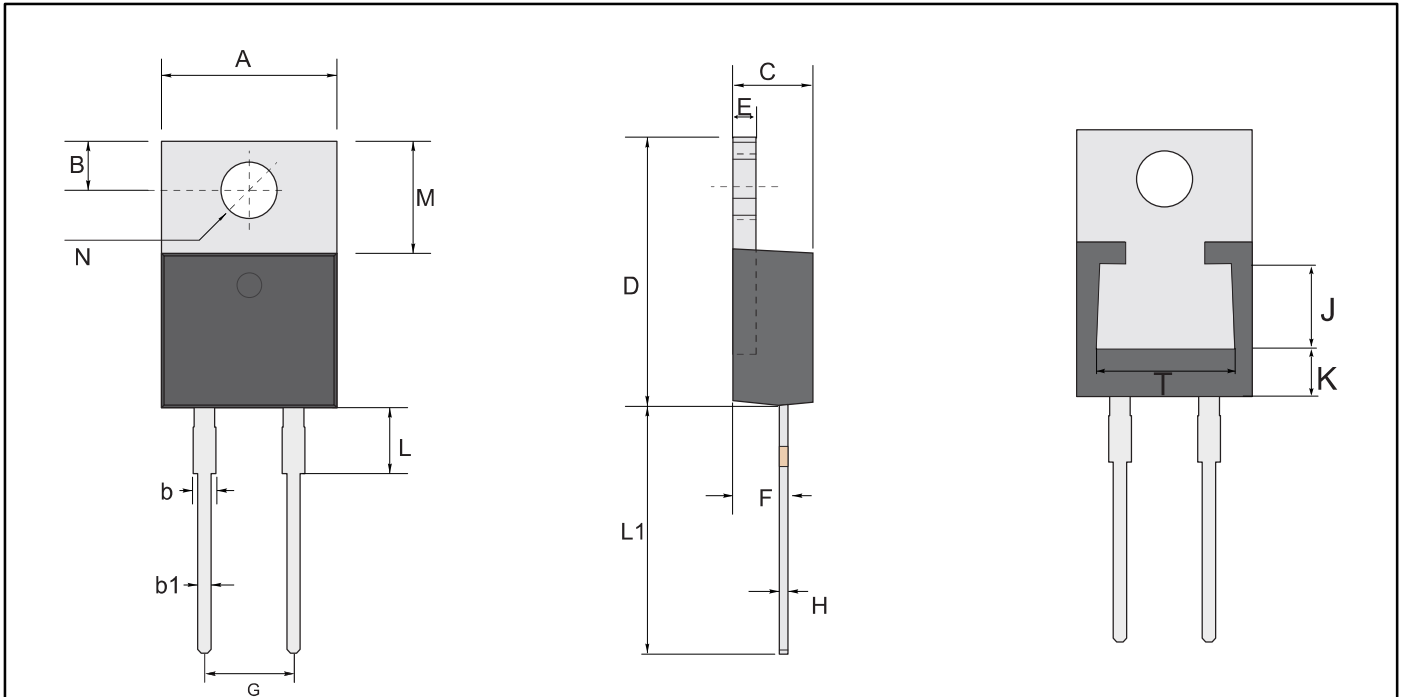
Fig.4 Maximum Non-Repetitive Peak Forward Surge Current



Package Outline Dimensions Millimeters

TO-220AC

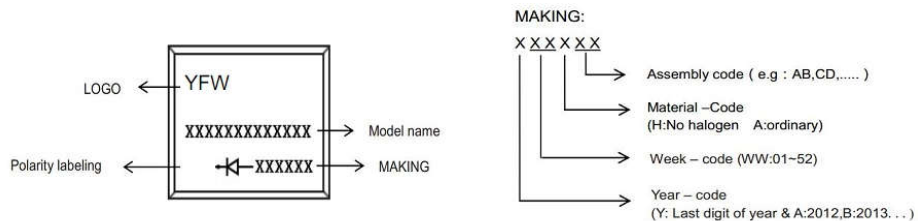
Through Hole Package ; 2 leads



TO-220AC mechanical data

| UNIT | | A | B | b | b1 | C | D | E | F | G | H | L | L1 | M | N | J | T | K |
|------|-----|-------|------|------|------|------|-------|------|------|-------------|------|------|-------|--------------|--------------|--------------|-------------|--------------|
| mm | max | 10.45 | 2.94 | 1.77 | 0.94 | 4.76 | 16.0 | 1.40 | 3.37 | 5.1 typ. | 0.64 | 4.20 | 14.79 | 6.39 typ. | 3.84 typ. | 4.65 ref. | 7.7 ref. | 3.22 ref. |
| | typ | 9.94 | 2.74 | 1.27 | 0.81 | 4.57 | 15.09 | 1.27 | 3.07 | | 0.38 | 3.89 | 13.18 | | | | | |
| | min | 9.85 | 2.54 | 1.14 | 0.62 | 4.42 | 14.6 | 1.14 | 2.77 | | 0.35 | 2.80 | 13.08 | | | | | |
| mil | max | 411 | 116 | 70 | 37 | 187 | 630 | 55 | 133 | 201 typ. | 25 | 165 | 582 | 252 typ. | 151 typ. | 183 ref. | 303 ref. | 127 ref. |
| | typ | 391 | 108 | 50 | 32 | 180 | 594 | 50 | 121 | | 15 | 153 | 519 | | | | | |
| | min | 388 | 100 | 45 | 24 | 174 | 575 | 45 | 109 | | 14 | 110 | 515 | | | | | |

Marking on the body



Ordering information

| Part Number | Package | Unit Weight | Base Quantity | Delivery mode |
|-------------|----------|---------------|---------------|----------------------------|
| MUR1660AC | TO-220AC | 0.067oz(1.9g) | 50 pcs / tube | 1000pcs/box 5000pcs/carton |

Note: For Halogen Free molding compound, add "H" suffix to part number above.

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