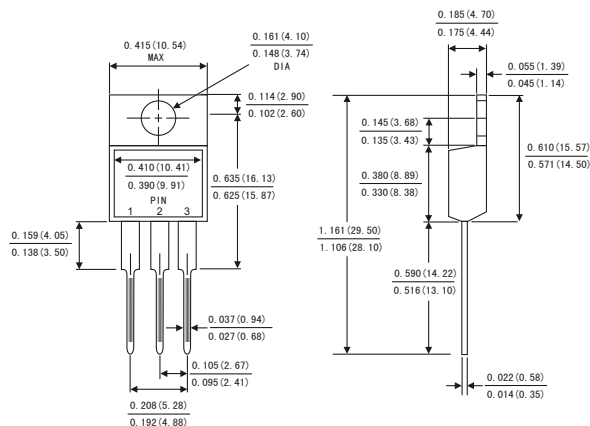


## FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Fast switching for high efficiency
- Low forward voltage drop
- Single rectifier construction
- High surge capability
- For use in low voltage ,high frequency inverters, free wheeling ,and polarity protection applications
- High temperature soldering guaranteed:260 C/10 seconds, 0.25"(6.35mm)from case
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



## TO-220AB



## MECHANICAL DATA

- Case: JEDEC TO-220AC molded plastic body
  - Terminals: Lead solderable per MIL-STD-750,method 2026
  - Polarity: As marked
  - Mounting Position: Any
- Weight: 0.08ounce, 2.24 gram

Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Ratings at 25°C ambient temperature unless otherwise specified ,Single phase ,half wave ,resistive or inductive load. For capacitive load,derate by 20%.)

|                                                                                                  | Symbols                             | MUR 1620CT                        | MUR 1640CT | MUR 1660CT | Units |
|--------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------|------------|------------|-------|
| Maximum repetitive peak reverse voltage                                                          | VRRM                                | 200                               | 400        | 600        | Volts |
| Maximum RMS voltage                                                                              | VRMS                                | 140                               | 280        | 420        | Volts |
| Maximum DC blocking voltage                                                                      | VDC                                 | 200                               | 400        | 600        | Volts |
| Maximum average forward rectified current(see Fig.1)                                             | <div>Per leg<br/>Total device</div> | <div>I(AV)<br/>8.0<br/>16.0</div> |            |            | Amps  |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC method) | IFSM                                | 150                               |            |            | Amps  |
| Maximum instantaneous forward voltage at 10.0 A(Note 1 )                                         | VF                                  | 0.975                             | 1.3        | 1.5        | Volts |
| Maximum instantaneous reverse current at rated DC blocking voltage(Note 1)                       | TA = 25°C                           | 5                                 | 10         |            | uA    |
|                                                                                                  | TA = 125°C                          | 500                               |            |            |       |
| Maximum Reverse Recovery Time (Note 2)                                                           | Trr                                 | 35                                |            |            | ns    |
| Typical thermal resistance (Note 3)                                                              | RθJC                                | 2.5                               |            |            | °C/W  |
| Operating junction temperature range                                                             | TJ                                  | -65 to +175                       |            |            | °C    |
| Storage temperature range                                                                        | TSTG                                | -65 to +175                       |            |            | °C    |

Notes: 1. Pulse test: 30 $\mu s$  pulse width,1% duty cycle

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

3. Thermal resistance from junction to case

# RATINGS AND CHARACTERISTIC CURVES MUR1620CT THRU MUR1660CT

FIG.1-FORWARD CURRENT DERATING CURVE

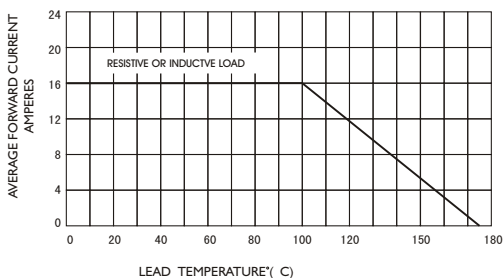


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

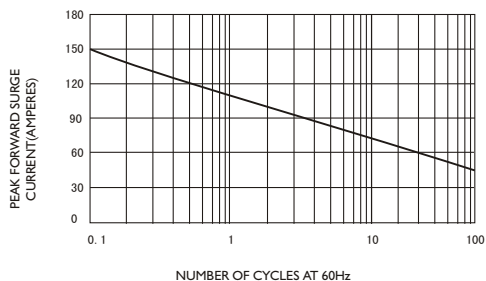


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

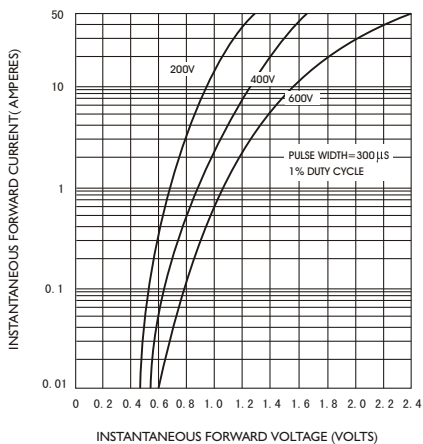


FIG.4-TYPICAL REVERSE CHARACTERISTICS

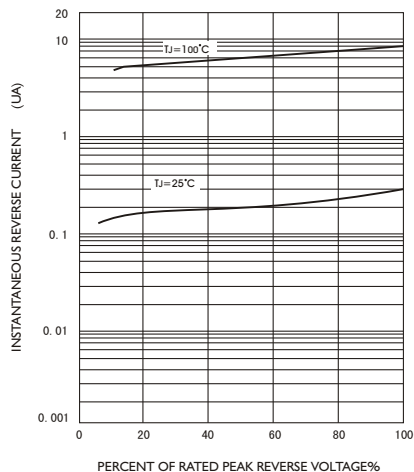


FIG.5-TYPICAL JUNCTION CAPACITANCE

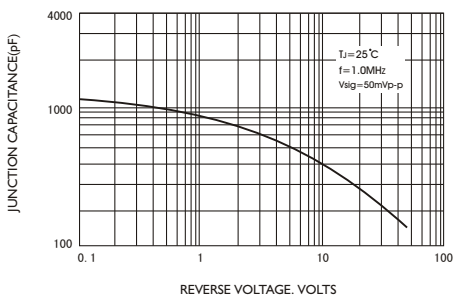
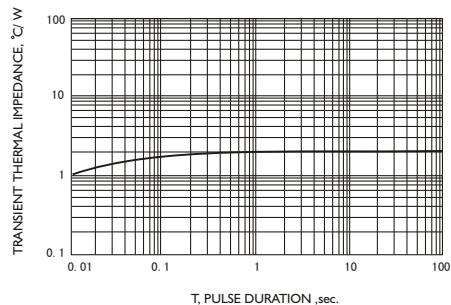


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



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