

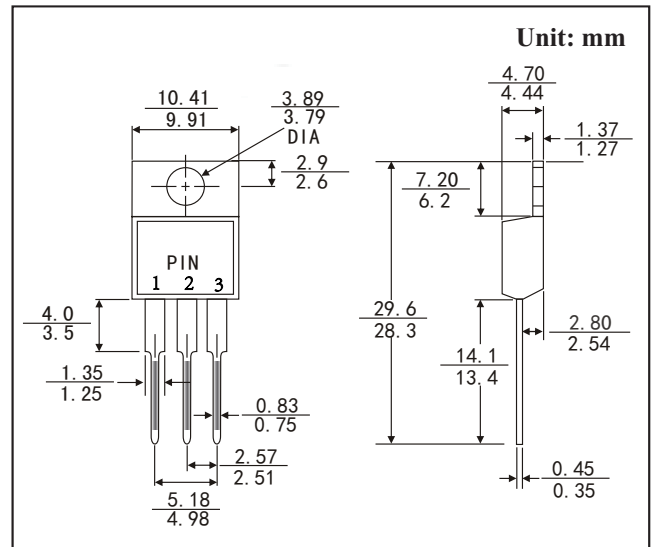
TO-220AB PLASTIC SILICON RECTIFIERS

FEATURES

- Low forward voltage drop
- High current capability
- High reliability
- Low Power Loss, High Efficiency
- Ultrafast 35 and 60 Nanosecond Recovery times
- UL 94V-0 rate flame retardant
- Axial leads, solderable per MIL-STD-202 method 208 guaranteed

MECHANICAL DATA

- Case style: TO-220AB molded plastic
- Mounting position: any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

| Parameter | Symbol | Rating | Unit |
|--|------------------|-----------|------|
| Maximum Repetitive Peak Reverse Voltage | VRRM | 400 | V |
| Maximum RMS Voltage | VRMS | 280 | V |
| Maximum DC Blocking Voltage | VDC | 400 | V |
| Maximum Average Forward Rectified Current | I _F | 16 | A |
| Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method) | IFSM | 100 | A |
| Maximum Instantaneous Forward Voltage @8A | VF | 1.3 | V |
| Maximum Reverse Current @ Rated VR TA=25 °C TA=125°C | IR | 10 500 | uA |
| Typical Junction Capacitance (Note 1) | C _j | 150 | pF |
| Typical Thermal Resistance(Note 2) | R _{θJA} | 30 | °C/w |
| Operating and Storage Temperature Range | T _J | -65~+150 | °C |
| Maximum reverse recovery time (Note 3) | T _{rr} | 50 | nS |

NOTE1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C

NOTE2. Leads maintained at ambient temperature at a distance of 9.5mm from the case

NOTE3. Measured with I_F = 0.5A, I_R = 1.0A, I_{RR} = 0.25A. See figure 5.

RATINGS AND CHARACTERISTIC CURVES

FIG1: I_o - T_c Curve

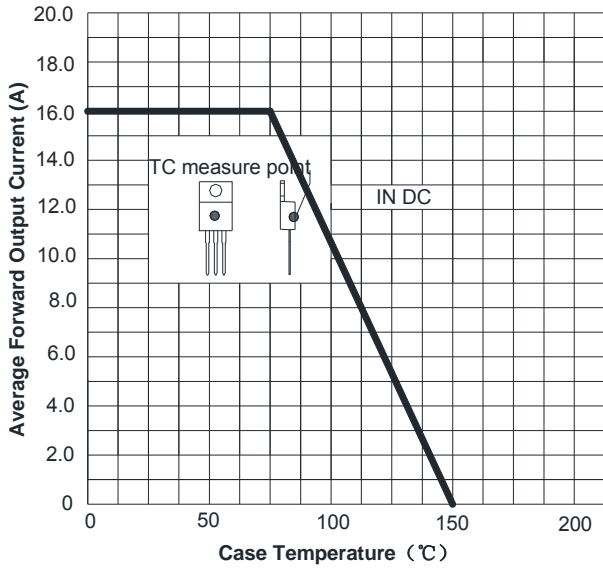


FIG2: Surge Forward Current Capability

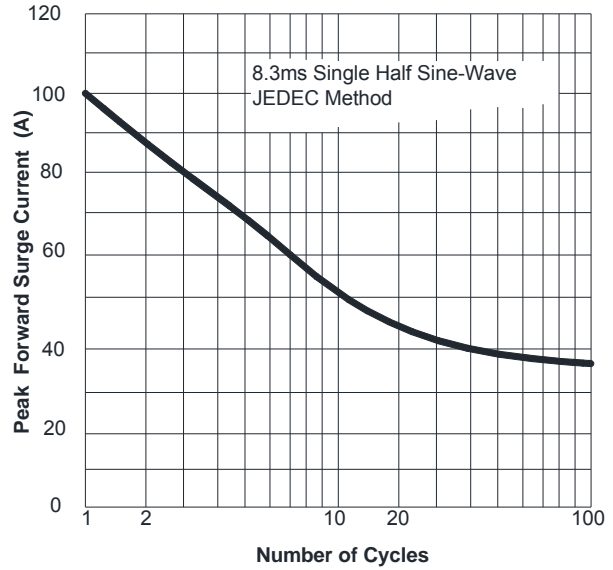


FIG3: Forward Voltage

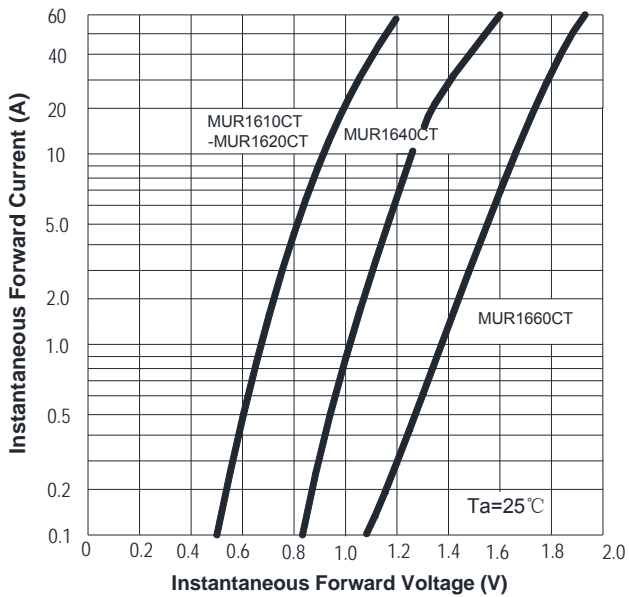


FIG4: Typical Reverse Characteristics

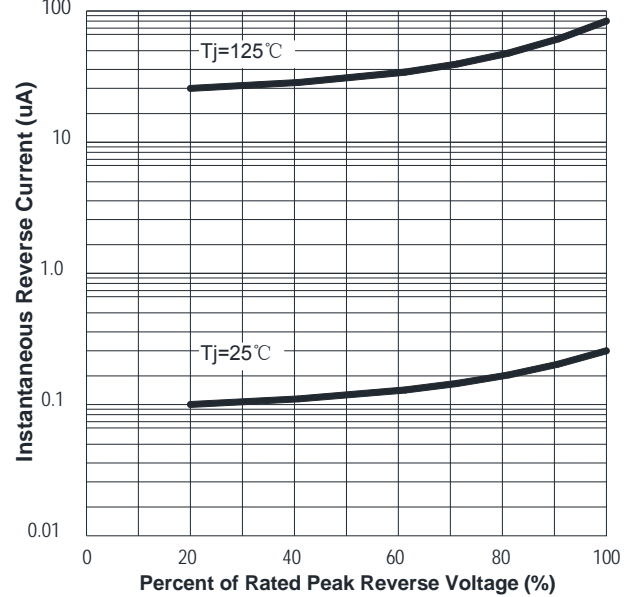


FIG.5 Diagram of circuit and Testing wave form of reverse recovery time

