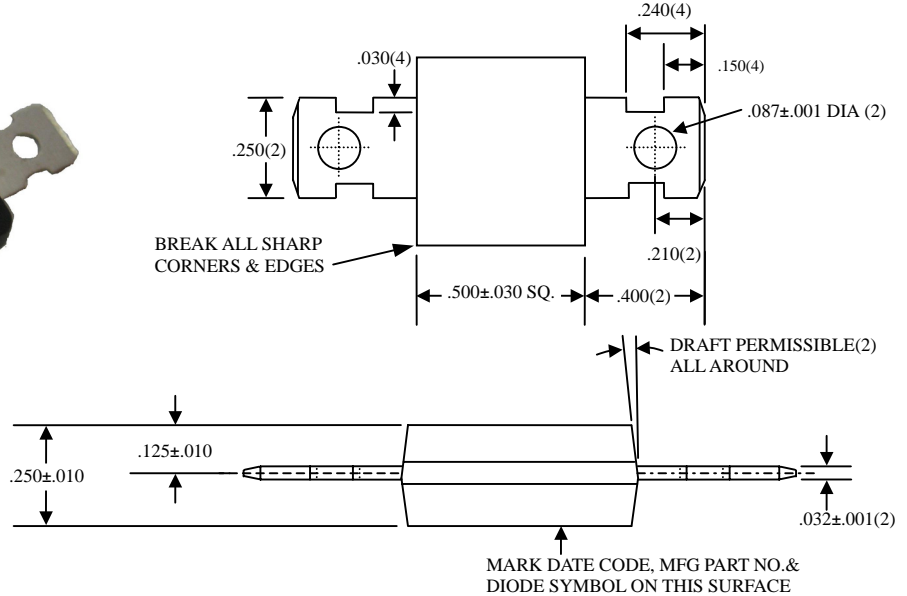


Description

Mechanical Dimensions

GT60-005~10



GT

Dimensions in millimeter

FEATURES

- UL 94V0 FLAME RETARDANT EPOXY MOLDING COMPOUND
- DIFFUSED JUNCTION
- LOW COST
- HIGH SURGE CURRENT CAPABILITY

MECHANICAL DATA

- CASE : TRANSFER MOLDED
- TERMINALS : PLATED 0.25" (6.35mm) FAST-ON TERMINALS
- POLARITY : CATHODE INDICATED BY COLOR BAND
- WEIGHT : 3.37 GRAMS

| R A T I N G S | S y m b o l | GT60-005 | GT60-01 | GT60-02 | GT60-04 | GT60-06 | GT60-10 | UNITS |
|--|-----------------|--|---------|---------|---------|---------|---------|-------|
| MAXIMUM RECURRENT PEAK REVERSE VOLTAGE | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 1000 | V |
| MAXIMUM RMS VOLTAGE | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 700 | V |
| MAXIMUM DC BLOCKING VOLTAGE | V_{DC} | 50 | 100 | 200 | 400 | 600 | 1000 | V |
| MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT @TA60°C @TL60°C | I_o | 6.0 22.0 | | | | | | A |
| PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD | I_{FSM} | 400 | | | | | | A |
| TYPICAL JUNCTION CAPACITANCE (NOTE 1) | C_j | 150 | | | | | | PF |
| TYPICAL THERMAL RESISTANCE (NOTE 2) | $R_{\theta ja}$ | DIMENSIONS IN INCHES AND (MILLIMETERS) | | | | | | °C/W |
| STORAGE TEMPERATURE RANGE | T_{STG} | - 55 TO + 150 | | | | | | °C |
| OPERATING TEMPERATURE RANGE | T_{OP} | - 55 TO + 150 | | | | | | °C |

ELECTRICAL CHARACTERISTICS (A_T T_A =25°C UNLESS OTHERWISE NOTED)

| CHARACTERISTICS | SYMBOL | GT60-005 | GT60-01 | GT60-02 | GT60-04 | GT60-06 | GT60-10 | UNITS | |
|--|--------|----------|---------|---------|---------|---------|---------|-------|----|
| MAXIMUM FORWARD VOLTAGE AT I _o DC | V_F | 1.0 | | | | | | | V |
| MAXIMUM REVERSE CURRENT AT 25°C | I_R | 5 | | | | | | | μA |
| MAXIMUM REVERSE CURRENT AT 100°C | I_R | 50 | | | | | | | μA |

NOTE :

1. MEASURED AT 1MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS
2. BOTH LEADS ATTACHED TO HEATSINK 70x70x1t(mm) COPPER PLATE AT LEAD LENTH 5mm

RATINGS AND CHARACTERISTIC CURVES GT60-005 THRU GT60-10

FIG. 1 - FORWARD DERATING CURVE

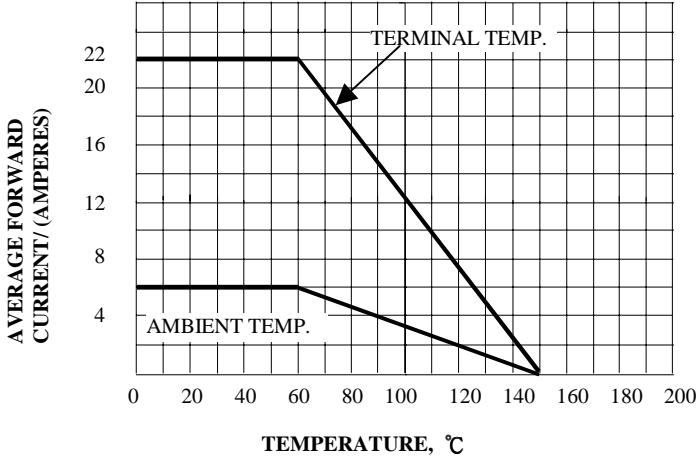


FIG. 2 - TYPICAL FORWARD CHARACTERISTIC

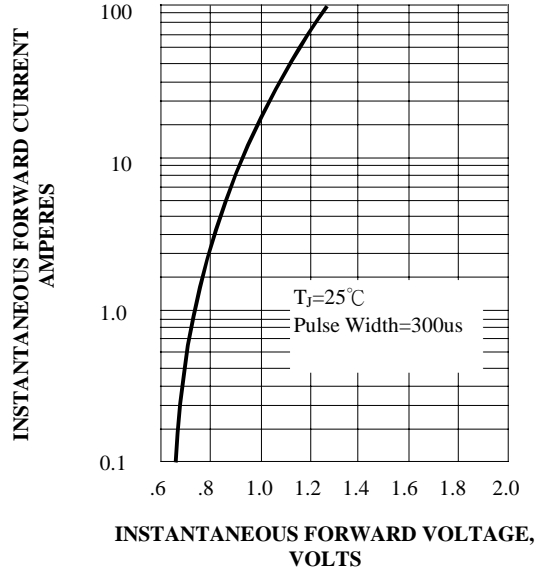


FIG. 3 - PEAK FORWARD SURGE CURRENT

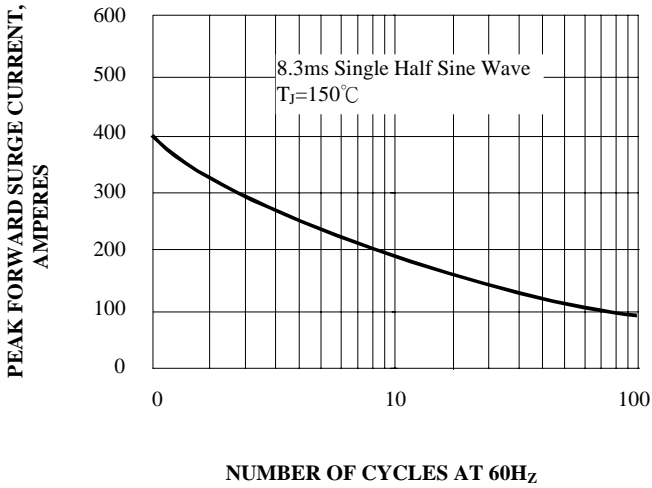


FIG. 4 - TYPICAL REVERSE CHARACTERISTIC

