



GT60-005
THRU
GT60-10

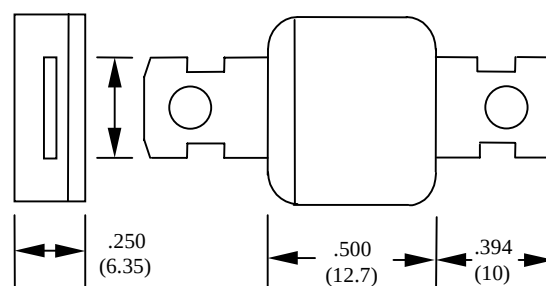
6A GENERAL PURPOSE PLASTIC RECTIFIER

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



CASE-GT

DIMENSIONS IN INCHES AND (MILLIMETERS)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED

SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD.

FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%

RATINGS	SYMBOL	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	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)	$R_{\theta ja}$	10						°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 70x 70x 1t(mm) COPPER PLATE AT LEAD LENTH 5mm

RATINGS AND CHARACTERISTIC CURVES GT60-005 THRU GT60-10

FIG. 1 - FORWARD DERATING CURVE

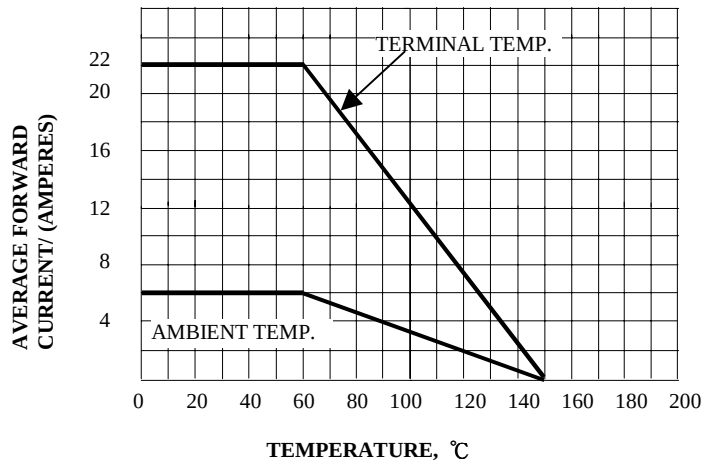


FIG. 2 - TYPICAL FORWARD CHARACTERISTIC

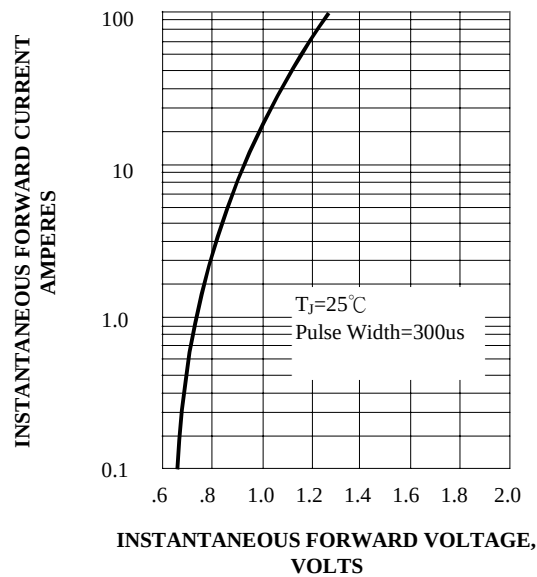


FIG. 3 - PEAK FORWARD SURGE CURRENT

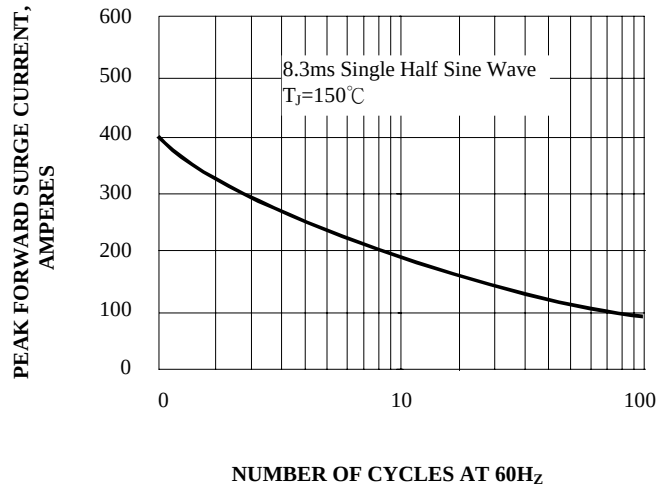


FIG. 4 - TYPICAL REVERSE CHARACTERISTIC

