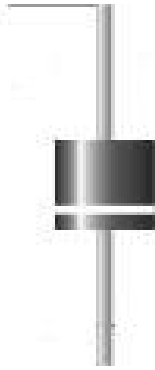




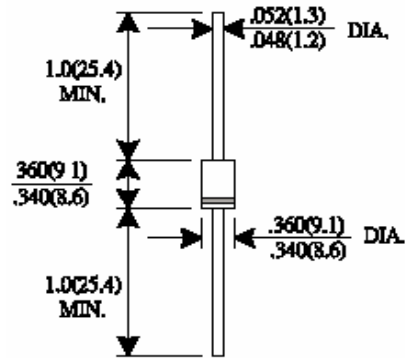
Description

Mechanical Dimensions

FG1001~1007



P600



DIMENSIONS IN INCHES AND (MILLIMETERS)

FEATURES

- HIGH CURRENT LEAD MOUNTED
 - DIFFUSED JUNCTION
 - HIGH SURGE CAPABILITY
 - LOW FORWARD VOLTAGE DROP
 - COMPLETELY INSULATED CASE
 - UNIFORM MOLDED BODY
 - THE PLASTIC MATERIAL CARRIES U/L RECOGNITION 94V-0
 - HIGH TEMPERATURE SOLDERING GUARANTEED : 250 °F / 10S
- .375" (9.5mm) LEAD LENGTH/5 LBS. (2.3KG) TENSION

MECHANICAL DATA

- CASE : MOLDED PLASTIC
- TERMINAL : AXIAL LEADS, SOLDERABLE PER MIL-STD-202, METHOD 208
- POLARITY : COLOR BAND DENOTES CATHODE
- MOUNTING POSITION : ANY
- WEIGHT : 2.1 GRAMS

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	FG1001	FG1002	FG1003	FG1004	FG1005	FG1006	FG1007	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	50	100	200	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	35	70	140	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	50	100	200	400	600	800	1000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" (9.5mm) LEAD LENGTH AT $T_A=55^\circ C$	I_O	10.0							A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	600							A
TYPICAL JUNCTION CAPACITANCE (NOTE)	C_J	150							PF
Typical thermal resistance	$R_{thja/jL}$	20/4.0							C/W
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 175							
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 175							

ELECTRICAL CHARACTERISTICS ($A_T T_A = 25^\circ C$ UNLESS OTHERWISE NOTED)

CHARACTERISTICS	SYMBOL	FG1001	FG1002	FG1003	FG1004	FG1005	FG1006	FG1007	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	1.1							V
MAXIMUM REVERSE CURRENT AT 25	I_R	5							μA

NOTE : MEASURED AT 1MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 VOLTS



RATINGS AND CHARACTERISTIC CURVES FG1001 THRU FG1007

FIG. 1 - FORWARD DERATING CURVE

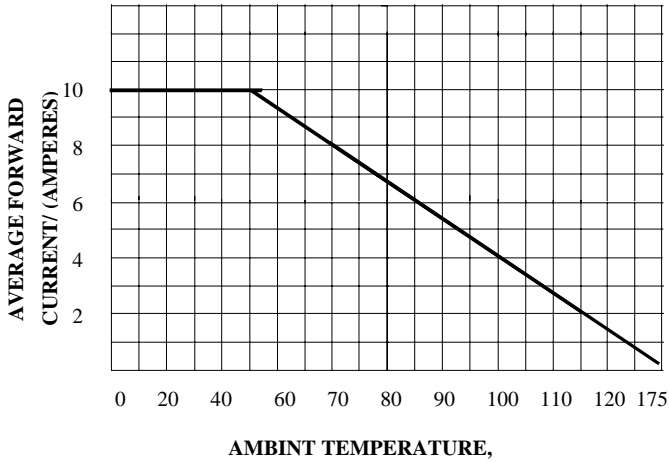


FIG. 2 - TYPICAL FORWARD CHARACTERISTIC

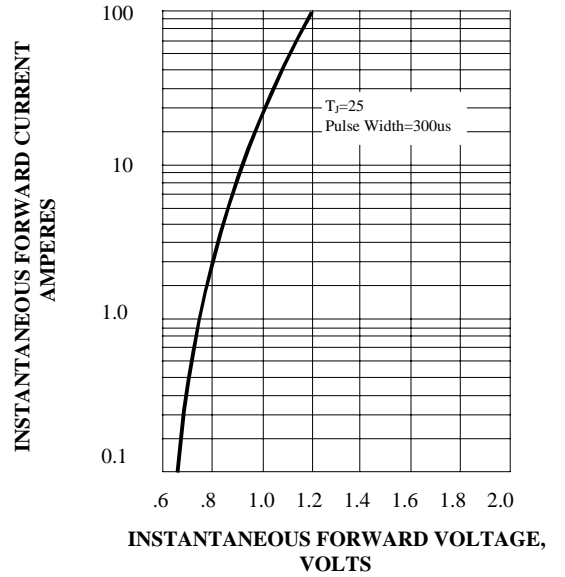


FIG. 3 - PEAK FORWARD SURGE CURRENT

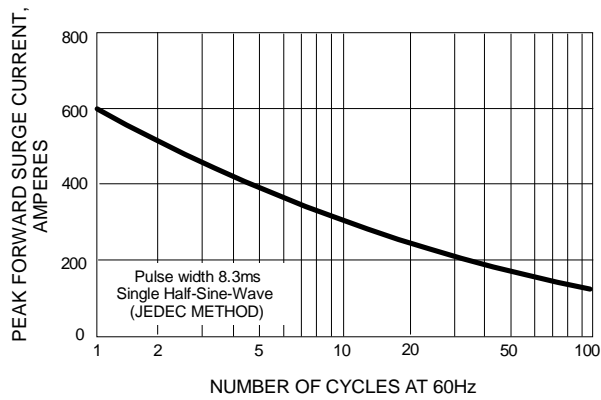


FIG. 4 - TYPICAL REVERSE CHARACTERISTIC

