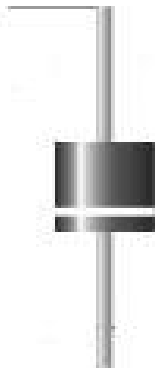




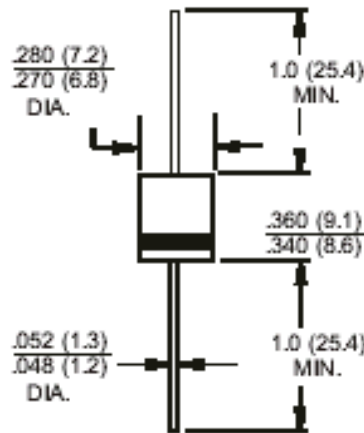
Description

Mechanical Dimensions

FG1001~1007



R-6



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 °/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							$\mu A$

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



### RATINGS AND CHARACTERISTIC CURVES FG1001 THRU FG1007

FIG. 1 - FORWARD DERATING CURVE

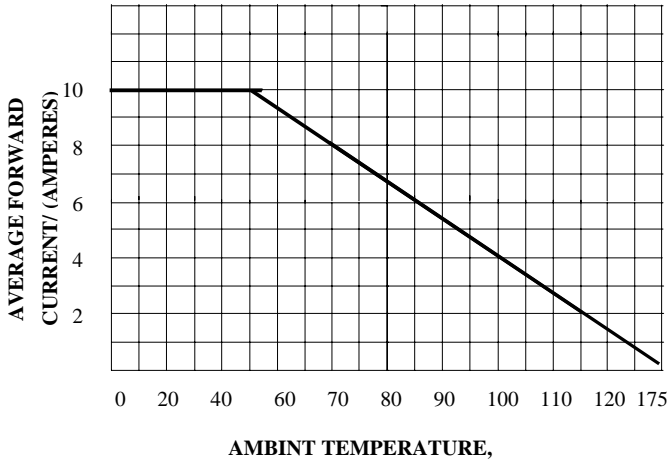


FIG. 2 - TYPICAL FORWARD CHARACTERISTIC

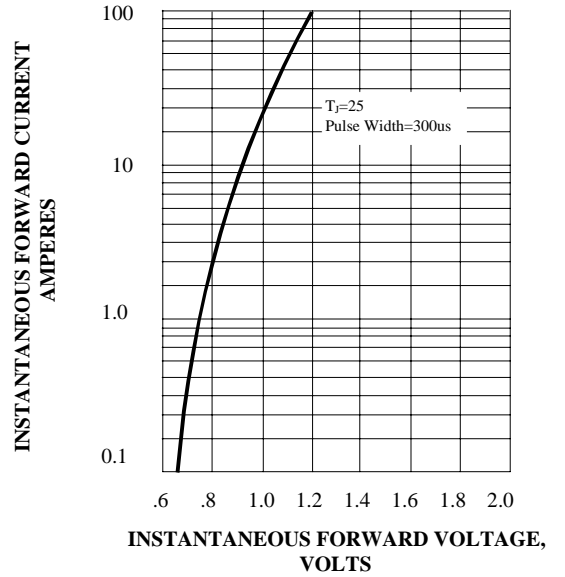


FIG. 3 - PEAK FORWARD SURGE CURRENT

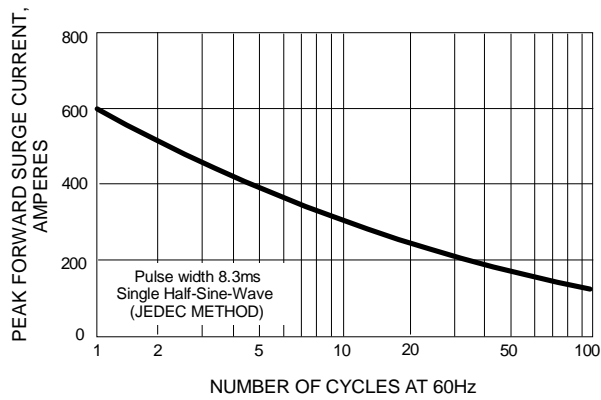


FIG. 4 - TYPICAL REVERSE CHARACTERISTIC

