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6A GENERAL PURPOSE PLASTIC RECTIFIER

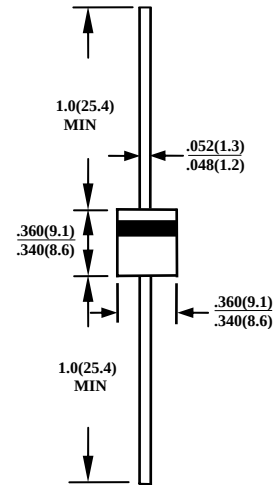
GP60-30-LF

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: 260°C/10S
/.375", (9.5mm) LEAD LENGTH/5 LBS. (2.3KG) TENSION
- LEAD FREE

MECHANICAL DATA

- CASE: MOLDED PLASTIC, P6, DIMENSIONS IN INCHES
AND (MILLIMETERS)
- 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	GP60-30-LF	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	V_{RRM}	3000	V
MAXIMUM RMS VOLTAGE	V_{RMS}	2100	V
MAXIMUM DC BLOCKING VOLTAGE	V_{DC}	3000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT 0.375" (9.5mm) LEAD LENGTH AT $T_A=55^{\circ}C$	I_O	6.0	A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	100	A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	C_J	50	PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta ja}$	10	$^{\circ}C/W$
STORAGE TEMPERATURE RANGE	T_{STG}	- 55 TO + 175	$^{\circ}C$
OPERATING TEMPERATURE RANGE	T_{OP}	- 55 TO + 125	$^{\circ}C$

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

CHARACTERISTICS	SYMBOL	GP60-30-LF	UNITS
MAXIMUM FORWARD VOLTAGE AT I_O DC	V_F	4.0	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 70×70×1t(mm) COPPER PLATE AT LEAD LENGTH 5mm

RATINGS AND CHARACTERISTIC CURVE GP60-30-LF

FIG.1-MAXIMUM FORWARD CURRENT DERATING CURRENT

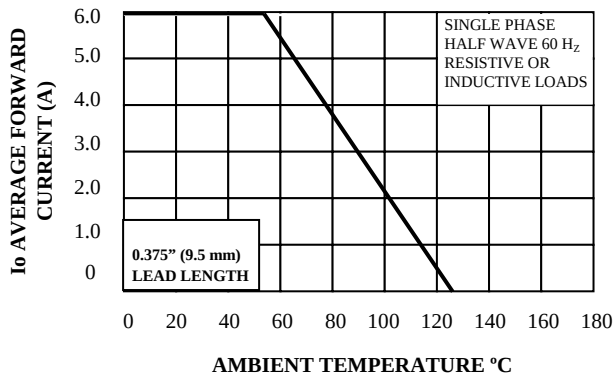


FIG.2-TYPICAL TRANSIENT THERMAL IMPEDANCE

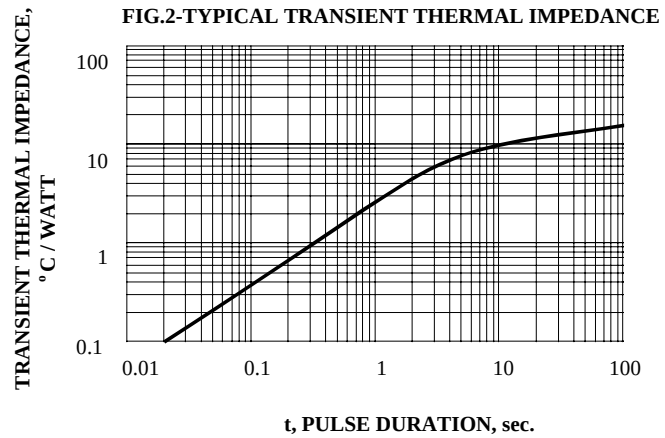


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

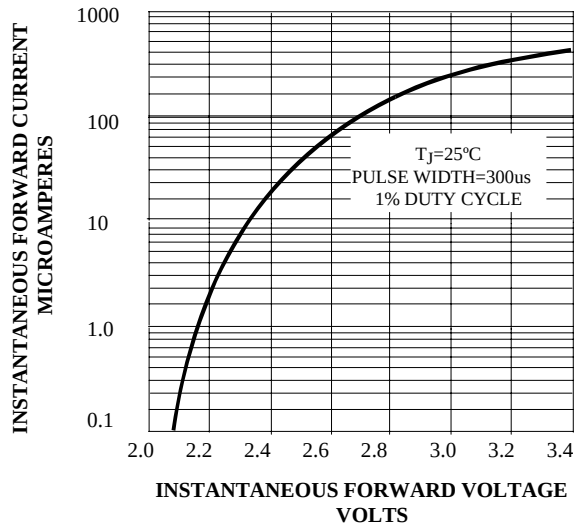


FIG.4-TYPICAL REVERSE CHARACTERISTICS

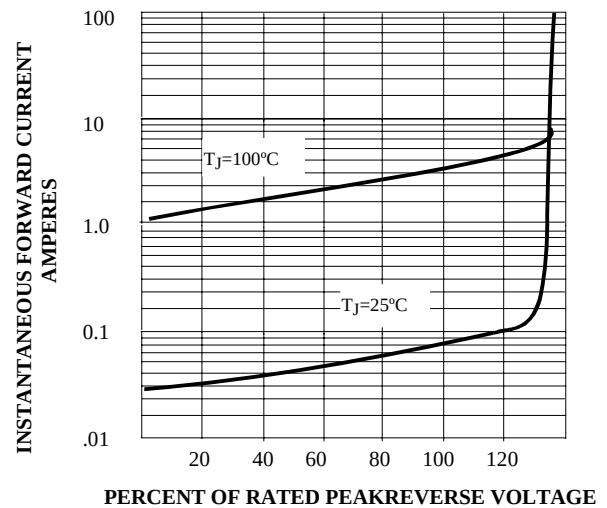


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

