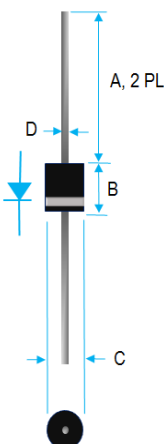


## 6A GENERAL PURPOSE RECTIFIER

 <table border="1" style="margin-left: 20px;"> <thead> <tr> <th colspan="3">Value In[mm]</th> </tr> <tr> <th>Dim.</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>1.000[25.40]</td> <td>---</td> </tr> <tr> <td>B</td> <td>0.340[8.64]</td> <td>0.360[9.14]</td> </tr> <tr> <td>C</td> <td>0.340[8.64]</td> <td>0.360[9.14]</td> </tr> <tr> <td>D</td> <td>0.048[1.22]</td> <td>0.052[1.32]</td> </tr> </tbody> </table>	Value In[mm]			Dim.	Min.	Max.	A	1.000[25.40]	---	B	0.340[8.64]	0.360[9.14]	C	0.340[8.64]	0.360[9.14]	D	0.048[1.22]	0.052[1.32]	<h3>PRODUCT FEATURES</h3> <ol style="list-style-type: none"> <li>1. FLAMMABILITY CLASSIFICATION: 94V-0</li> <li>2. LOW FORWARD VOLTAGE DROP</li> <li>3. DIFFUSED JUNCTION</li> <li>4. HIGH SURGE CURRENT CAPABILITY</li> <li>5. CASE: TRANSFER MOLDED, P600</li> <li>6. DIMENSIONS IN INCHES AND (MILLIMETERS)</li> <li>7. POLARITY: INDICATED BY CATHODE BAND</li> <li>8. WEIGHT: 2.1 GRAMS</li> <li>9. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208</li> <li>10. PULLING TEST: 2.3 KG</li> <li>11. RoHS</li> </ol>
Value In[mm]																			
Dim.	Min.	Max.																	
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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS RATINGS AT 25°C AMBIENT TEMPERATURE UNLESS OTHERWISE SPECIFIED STORAGE AND OPERATING TEMPERATURE RANGE -55°C TO +175°C. SINGLE PHASE, HALF WAVE, 60 HZ, RESISTIVE OR INDUCTIVE LOAD. FOR CAPACITIVE LOAD, DERATE CURRENT BY 20%.

RATINGS	SYMBOL	VALUE	UNITS
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT, 0.375"(9.5mm) LEAD LENGTH @ 55°C	$I_o$	6	A
PEAK FWD SURGE CURRENT, 8.3ms 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)	$R_{\theta jc}$	10	°C/W
MAXIMUM FORWARD VOLTAGE	$V_F$	1	V
MAXIMUM REVERSE CURRENT @ 25°C	$I_R$	5	uA
MAXIMUM REVERSE CURRENT @ 100°C	$I_R$	50	uA

1. MEASURED @ 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
2. BOTH LEADS ATTACHED TO HEAT SINK 70x70x1T (mm) COPPER PLATE AT LEAD LENGTH 5mm
3. MAXIMUM FORWARD VOLTAGE AT  $I_o$  DC

PART NUMBER	MAX RECURRENT PK REV VOLTAGE $V_{RRM}$ (V)	MAX RMS VOLTAGE $V_{RMS}$ (V)	MAX DC BLOCKING VOLTAGE $V_{DC}$ (V)
GP60-005	50	35	50
GP60-01	100	70	100
GP60-02	200	140	200
GP60-04	400	280	400
GP60-06	600	420	600
GP60-08	800	560	800
GP60-10	1000	700	1000

## RATING AND CHARACTERISTIC CURVES

FIG.1-MAXIMUM FORWARD CURRENT DERATING CURRENT

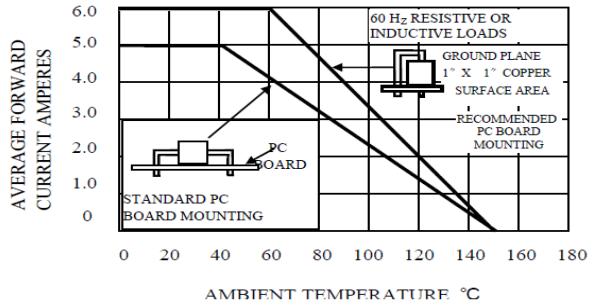


FIG.2-MAXIMUM FORWARD CURRENT DERATING CURVE

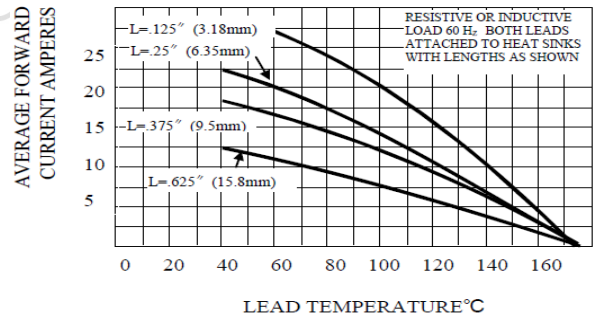


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTIC

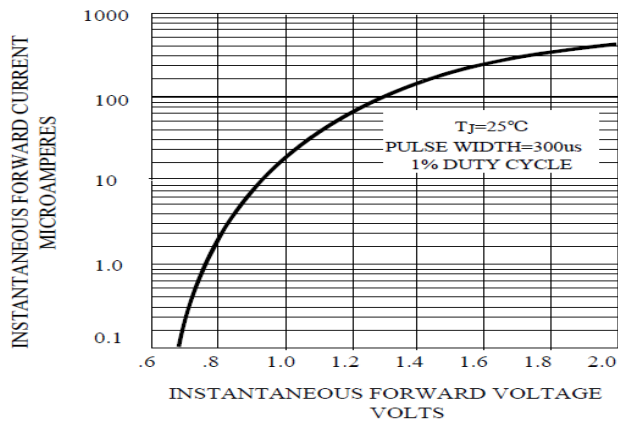


FIG.4-TYPICAL REVERSE CHARACTERISTICS

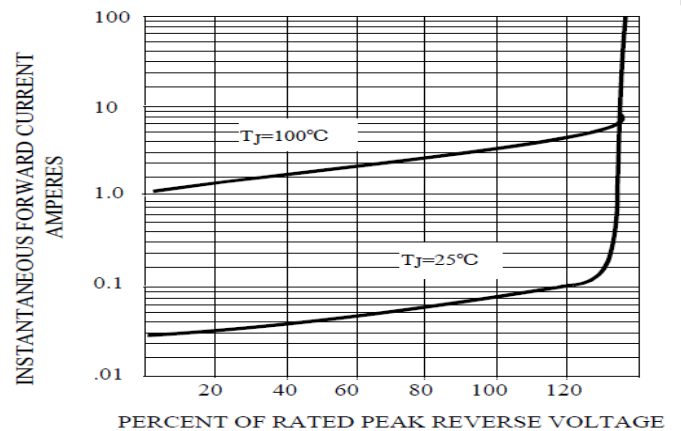


FIG.5-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

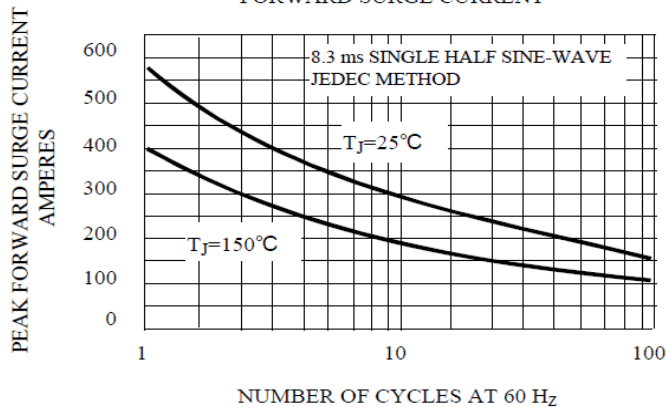


FIG.6-TYPICAL TRANSIENT THERMAL IMPEDANCE

