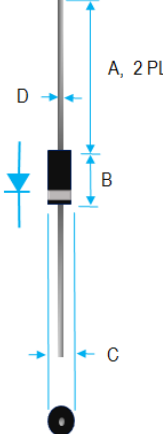


## 1A GENERAL PURPOSE GLASS PASSIVATED RECTIFIER

 <table border="1" data-bbox="381 420 673 588"> <thead> <tr> <th colspan="3">Value Inch[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>0.166[4.22]</td> <td>0.205[5.21]</td> </tr> <tr> <td>C</td> <td>0.080[2.03]</td> <td>0.107[2.72]</td> </tr> <tr> <td>D</td> <td>0.028[0.71]</td> <td>0.034[0.86]</td> </tr> </tbody> </table>	Value Inch[mm]			Dim.	Min.	Max.	A	1.000[25.40]	---	B	0.166[4.22]	0.205[5.21]	C	0.080[2.03]	0.107[2.72]	D	0.028[0.71]	0.034[0.86]	<h3>PRODUCT FEATURES</h3> <ol style="list-style-type: none"> <li>1. FLAMMABILITY CLASSIFICATION: 94V-0</li> <li>2. GLASS PASSIVATED CHIP JUNCTION</li> <li>3. HIGH SURGE CURRENT CAPABILITY</li> <li>4. CASE: TRANSFER MOLDED, DO-41</li> <li>5. DIMENSIONS IN INCHES AND (MILLIMETERS)</li> <li>6. POLARITY: INDICATED BY CATHODE BAND</li> <li>7. WEIGHT: 0.34 GRAMS</li> <li>8. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208</li> <li>9. RoHS</li> </ol>
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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 +150°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	$I_o$	1	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	30	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	$C_j$	15	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta jc}$	50	°C/W
MAXIMUM FORWARD VOLTAGE	$V_F$	1.1	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 HEATSINK 20x20x1T (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)
1N4001G	50	35	50
1N4002G	100	70	100
1N4003G	200	140	200
1N4004G	400	280	400
1N4005G	600	420	600
1N4006G	800	560	800
1N4007G	1000	700	1000

## RATING AND CHARACTERISTIC CURVES

FIG. 1 - TYPICAL FORWARD CURRENT DERATING CURVE

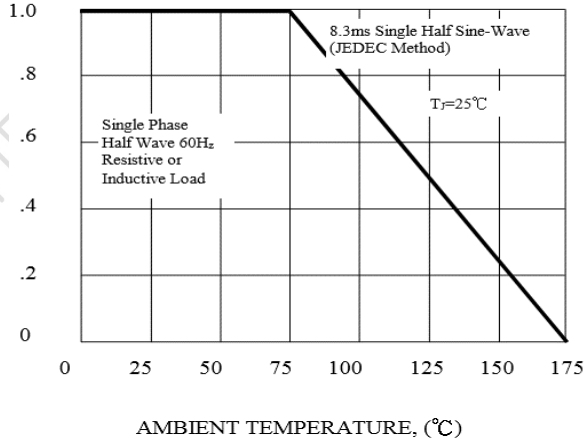


FIG. 2 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

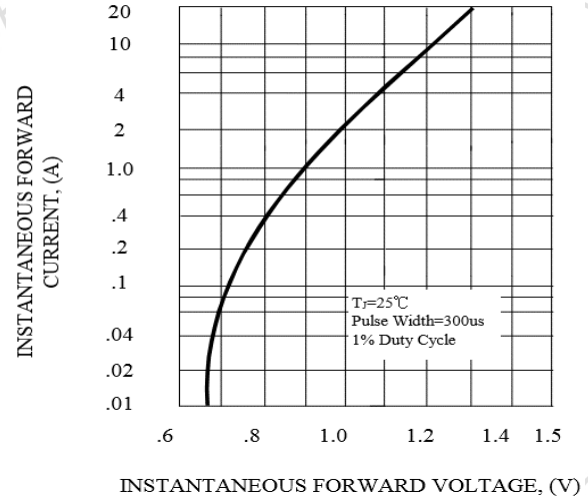


FIG. 3 - MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

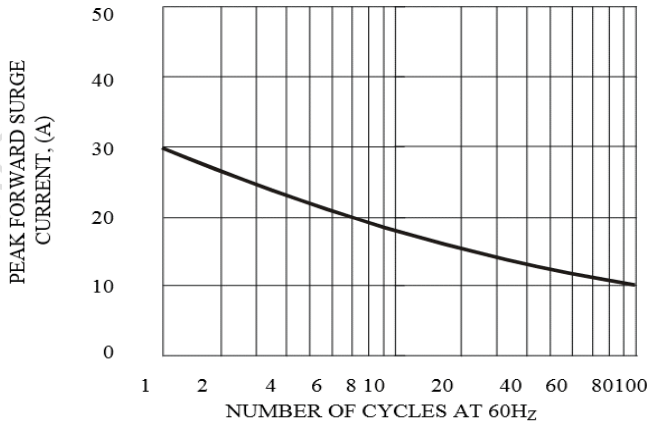


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

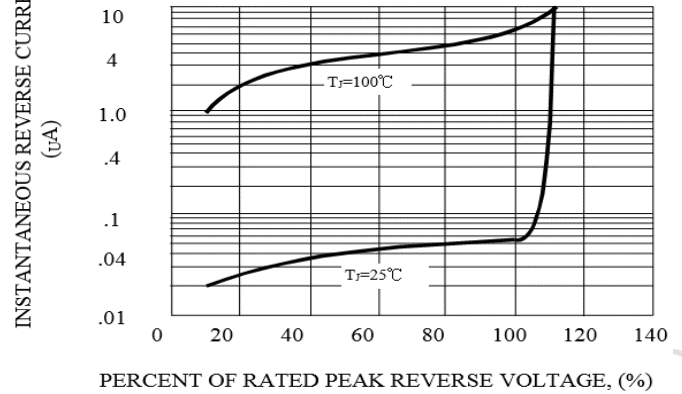


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

