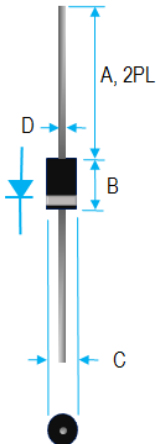


5A GENERAL PURPOSE RECTIFIER

 <table border="1" data-bbox="365 409 690 598"> <thead> <tr> <th rowspan="2">Dim.</th> <th colspan="2">Value Inch[mm]</th> </tr> <tr> <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>0.335[8.51]</td> <td>0.375[9.52]</td> </tr> <tr> <td>C</td> <td>0.197[5.00]</td> <td>0.220[5.59]</td> </tr> <tr> <td>D</td> <td>0.048[1.22]</td> <td>0.052[1.32]</td> </tr> </tbody> </table>	Dim.	Value Inch[mm]		Min.	Max.	A	1.000[25.40]	---	B	0.335[8.51]	0.375[9.52]	C	0.197[5.00]	0.220[5.59]	D	0.048[1.22]	0.052[1.32]	<h3>PRODUCT FEATURES</h3> <ol style="list-style-type: none"> 1. FLAMMABILITY CLASSIFICATION: 94V-0 2. HIGH SURGE CURRENT CAPABILITY 3. CASE: TRANSFER MOLDED, DO-201AD 4. DIMENSIONS IN INCHES AND (MILLIMETERS) 5. POLARITY: INDICATED BY CATHODE BAND 6. WEIGHT: 1.2 GRAMS 7. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208 8. RoHS
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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 +125°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	5	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	200	A
TYPICAL JUNCTION CAPACITANCE(NOTE 1)	C_j	30	pF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta jc}$	20	°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	100	uA

1. MEASURED @ 1.0 MHZ AND APPLIED REVERSE VOLTAGE OF 4.0 V
2. BOTH LEADS ATTACHED TO HEAT SINK 63.5x63.5x1T (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)
GP50-005	50	35	50
GP50-01	100	70	100
GP50-02	200	140	200
GP50-04	400	280	400
GP50-06	600	420	600
GP50-08	800	560	800
GP50-10	1000	700	1000

RATING AND CHARACTERISTIC CURVES

Fig. 1-MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD.

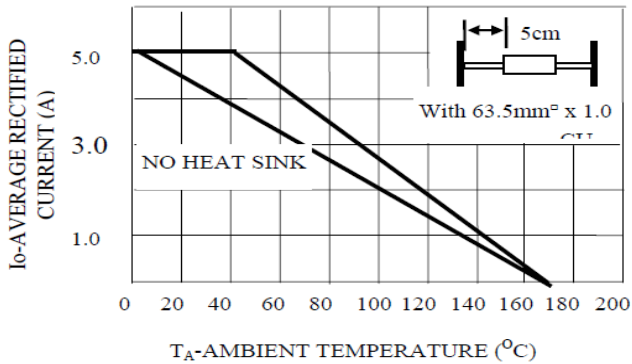


Fig. 2-MAXIMUM FORWARD SURGE
NUMBER OF CYCLES

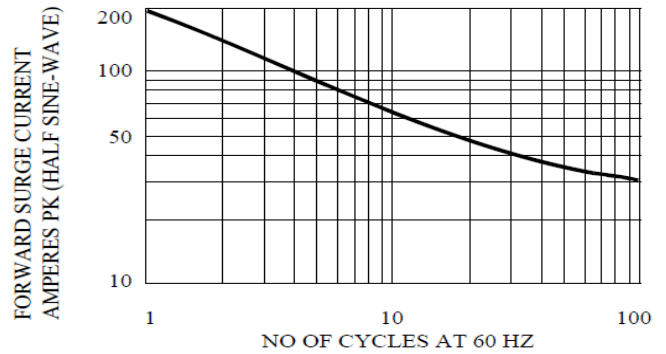


Fig. 3-MAXIMUM CURRENT RATING
EFFECT OF COPPER AREA.
RESISTIVE/INDUCTIVE LOAD.

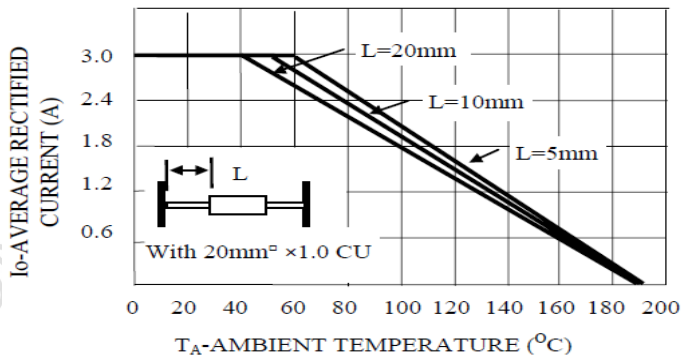


Fig. 4-TYPICAL JUNCTION CAPACITANCE

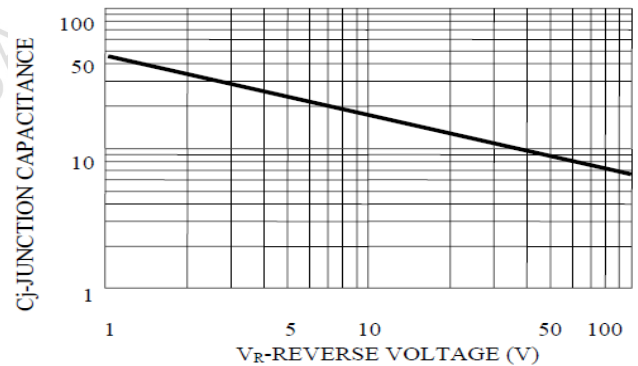


Fig. 5-TYPICAL FORWARD CHARACTERISTICS

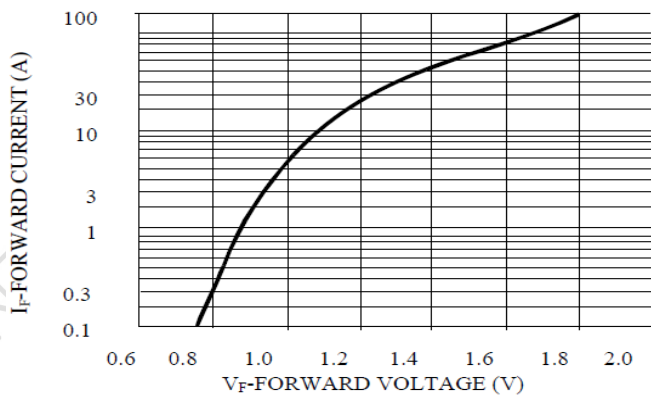


Fig. 6-FORWARD PULSE CURRENT, PULSE

