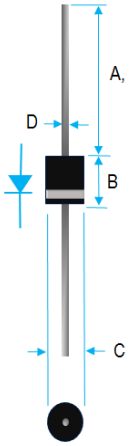
GP80-005 THRU GP80-10 SPECIFICATIONS

Rev. A

8A GENERAL PURPOSE RECTIFIER



Dim.	Value In[mm] 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]

PRODUCT FEATURES

1. FLAMMABILITY CLASSIFICATION: 94V-0
2. LOW FORWARD VOLTAGE DROP
3. DIFFUSED JUNCTION
4. HIGH SURGE CURRENT CAPABILITY
5. CASE: TRANSFER MOLDED, P600
6. DIMENSIONS IN INCHES AND (MILLIMETERS)
7. POLARITY: INDICATED BY CATHODE BAND
8. WEIGHT: 2.1 GRAMS
9. LEADS: SOLDERABILITY PER MIL-STD-202 METHOD 208
10. PULLING TEST: 2.3 KG
11. RoHS

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	8	A
PEAK FWD SURGE CURRENT, 8.3ms HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	I_{FSM}	400	A
TYPICAL JUNCTION CAPACITANCE(NOTE1)	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 100x100x1T (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)
GP80-005	50	35	50
GP80-01	100	70	100
GP80-02	200	140	200
GP80-04	400	280	400
GP80-06	600	420	600
GP80-08	800	560	800
GP80-10	1000	700	1000

RATING AND CHARACTERISTIC CURVES

FIG. 1 - FORWARD DERATING CURVE

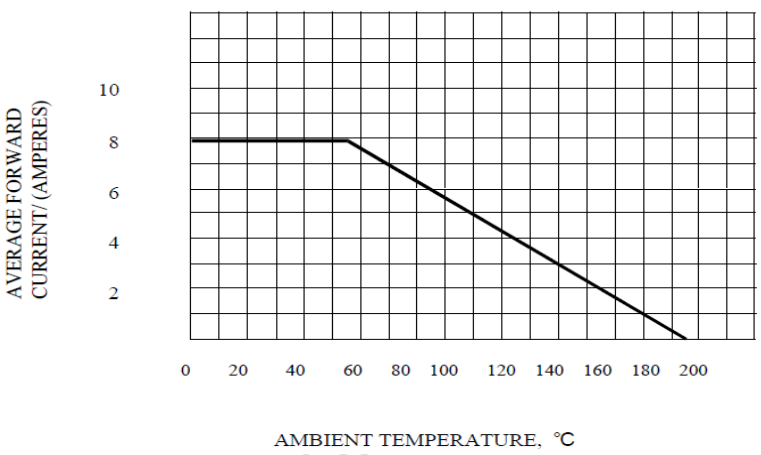


FIG. 2 - TYPICAL FORWARD CHARACTERISTIC

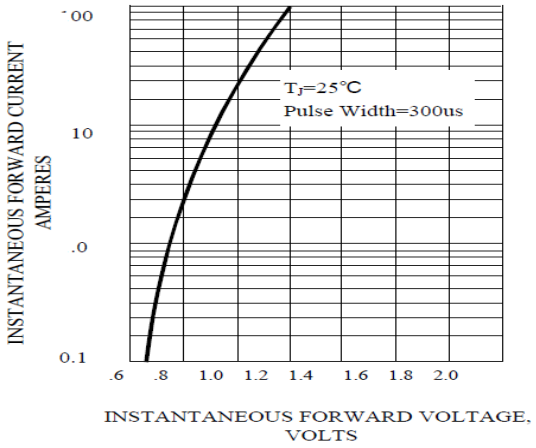


FIG. 3 - PEAK FORWARD SURGE CURRENT

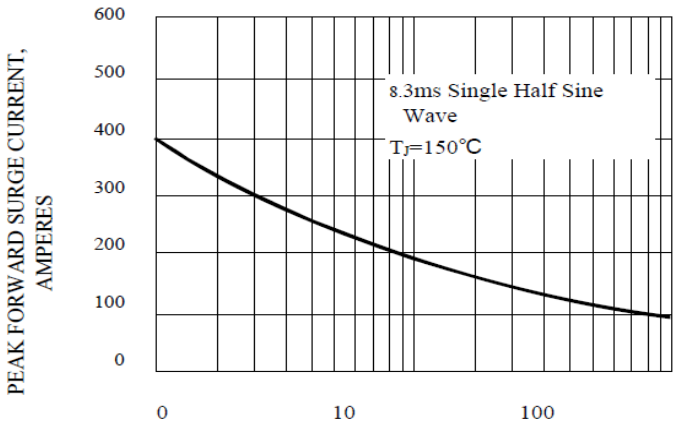


FIG. 4 - TYPICAL REVERSE CHARACTERISTIC