



**GP15-005G  
THRU  
GP15-10G**

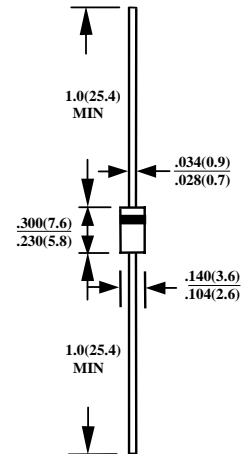
**1.5A GENERAL PURPOSE PLASTIC SILICON RECTIFIER**

**FEATURES**

- LOW FORWARD VOLTAGE
- HIGH CURRENT CAPABILITY
- LOW LEAKAGE CURRENT
- HIGH SURGE CAPABILITY
- LOW COST
- GLASS PASSIVATED CHIP JUNCTION

**MECHANICAL DATA**

- CASE : MOLDED PLASTIC USE UL 94V-0 RECOGNIZED FLAME RETARDANT EPOXY
- TERMINAL : AXIAL LEADS, SOLDERABLE PER MIL-STD-202 METHOD 208
- POLARITY : COLOR BAND DENOTES CATHODE
- MOUNTING POSITION : ANY
- WEIGHT : 0.4 GRAMS



CASE : DO15  
DIMENSIONS IN INCHES AND (MILLIMETERS)

**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	GP15 -005G	GP15 -01G	GP15 -02G	GP15 -04G	GP15 -06G	GP15- 08G	GP15- 10G	UNITS
MAXIMUM RECURRENT PEAK REVERSE VOLTAGE	$V_{RRM}$	50	100	200	400	600	800	1000	V
MAXIMUM RMS VOLTAGE	$V_{RMS}$	35	70	140	280	420	560	700	V
MAXIMUM DC BLOCKING VOLTAGE	$V_{DC}$	50	100	200	400	600	800	1000	V
MAXIMUM AVERAGE FORWARD RECTIFIED CURRENT .375" (9.5mm) LEAD LENGTH AT TA=55°C	$I_O$	1.5							A
PEAK FORWARD SURGE CURRENT, 8.3ms SINGLE HALF SINE-WAVE SUPERIMPOSED ON RATED LOAD	$I_{FSM}$	50							A
TYPICAL JUNCTION CAPACITANCE (NOTE 1)	$C_J$	15							PF
TYPICAL THERMAL RESISTANCE (NOTE 2)	$R_{\theta ja}$	40							°C/W
OPERATING TEMPERATURE RANGE	$T_{OP}$	- 55 TO + 175							°C

**ELECTRICAL CHARACTERISTICS (AT TA =25°C UNLESS OTHERWISE NOTED)**

CHARACTERISTICS	SYMBOL	GP15 -005G	GP15 -01G	GP15 -02G	GP15 -04G	GP15 -06G	GP15- 08G	GP15- 10G	UNITS
MAXIMUM FORWARD VOLTAGE AT $I_O$ DC	$V_F$	1.1					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 20×20×1t(mm) COPPER PLATE AT LEAD LENGTH 5mm

# RATINGS AND CHARACTERISTIC CURVE GP15-005G THRU GP15-10G

FIG. 1 - FORWARD CURRENT DERATING CURVE

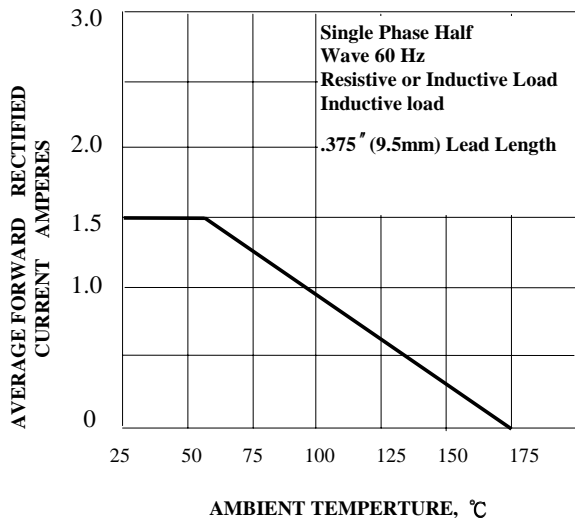


FIG. 2-PEAK FORWARD SURGE CURRENT

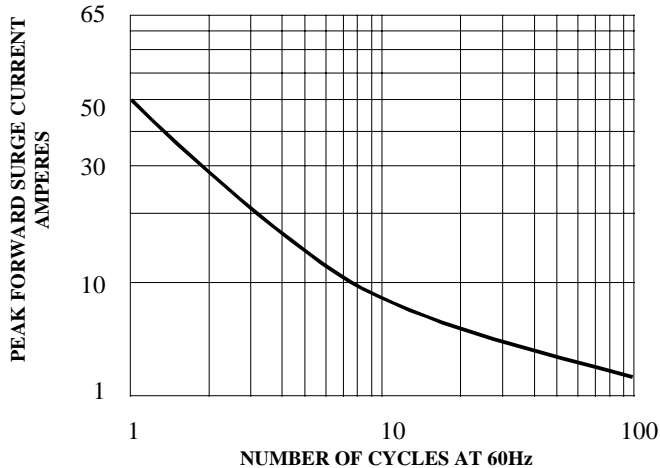


FIG. 3-TYPICAL FORWARD CHARACTERISTICS

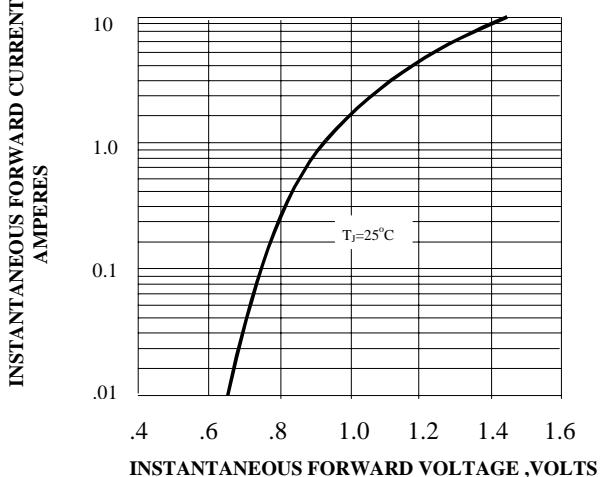


FIG. 4-TYPICAL JUNCTION CAPACITANCE

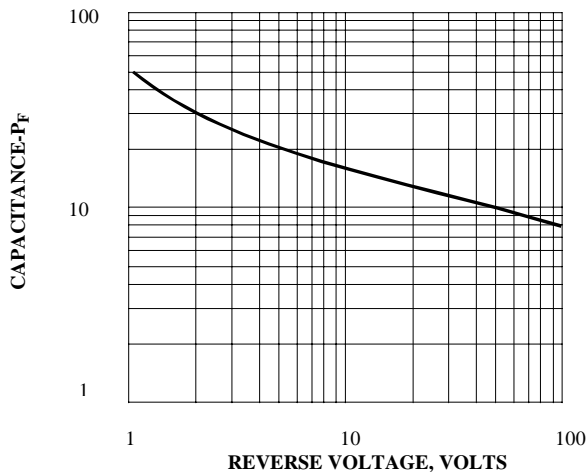


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

