RGPP2A THRU RGPP2M

GLASS PASSIVATED
FAST RECOVERY RECTIFIER

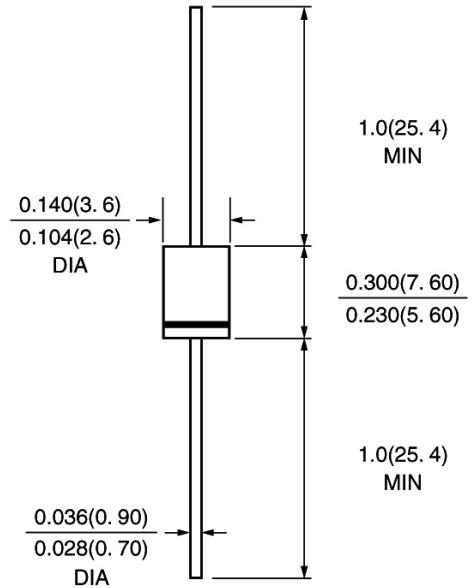**VOLTAGE:50 TO 1000V   CURRENT: 2.0A**

GULF SEMI

FEATURE

Molded case feature for auto insertion
High current capability
Low leakage current
Fast switching capability
High temperature soldering guaranteed
250℃ /10sec/0.375" lead length at 5 lbs tension
Glass Passivated chip

MECHANICAL DATA

Terminal: Plated axial leads solderable per
            MIL-STD 202E, method 208C
Case: Molded with UL-94 Class V-0 recognized Flame
         Retardant Epoxy
Polarity: color band denotes cathode
Mounting position: any

DO-15\DO-204AC

1.0(25. 4)
MIN

0.140(3. 6)
0.104(2. 6)
DIA

0.300(7. 60)
0.230(5. 60)

1.0(25. 4)
MIN

0.036(0. 90)
0.028(0. 70)
DIA

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half-wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	RGPP 2A	RGPP 2B	RGPP 2D	RGPP 2G	RGPP 2J	RGPP 2K	RGPP 2M	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 3/8"lead length at Ta =55°C	$I_{f(av)}$	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{fsm}	60.0							A
Maximum Forward Voltage at rated Forward Current and 25°C	V_f	1.3							V
Maximum full load reverse current full cycle average at 55°C Ambient	$I_{r(av)}$	100.0							µA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =150°C	I_r	5.0 200							µA µA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	150				250	500		nS
Typical Junction Capacitance (Note 2)	C_j	25.0							pF
Typical Thermal Resistance (Note 3)	$R_{th(ja)}$	45.0							°C /W
Storage and Operating Junction Temperature	T_{stg}, T_j	-50 to +150							°C

Note:
   1. Reverse Recovery Condition If =0.5A, Ir =1.0A, Irr =0.25A
   2. Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc
   3. Thermal Resistance from Junction to Ambient at 3/8"lead length, P.C. Board Mounted

1

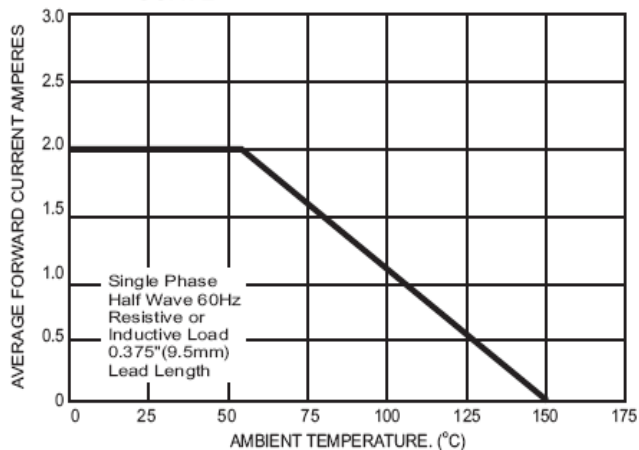### FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

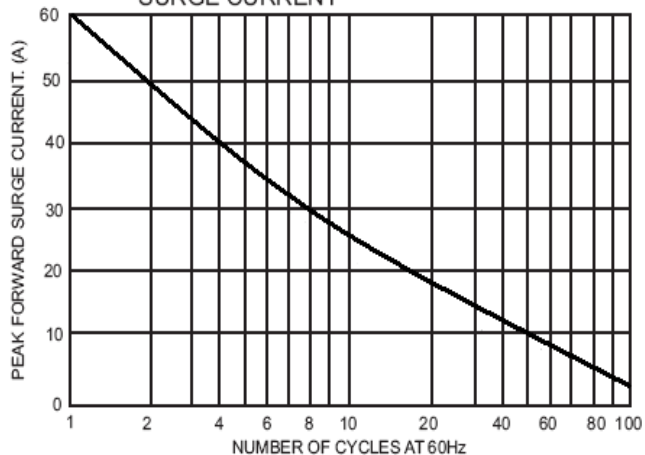### FIG.2- MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT
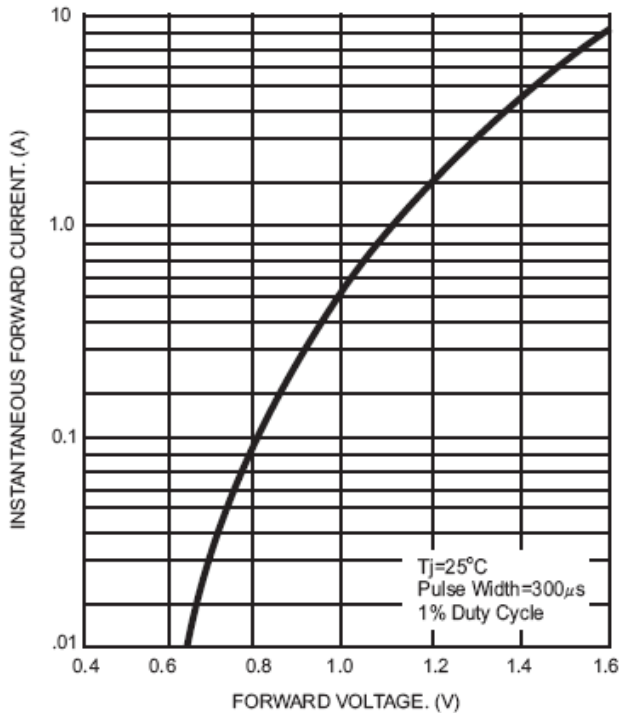
FIG.3- TYPICAL FORWARD CHARACTERISTICS
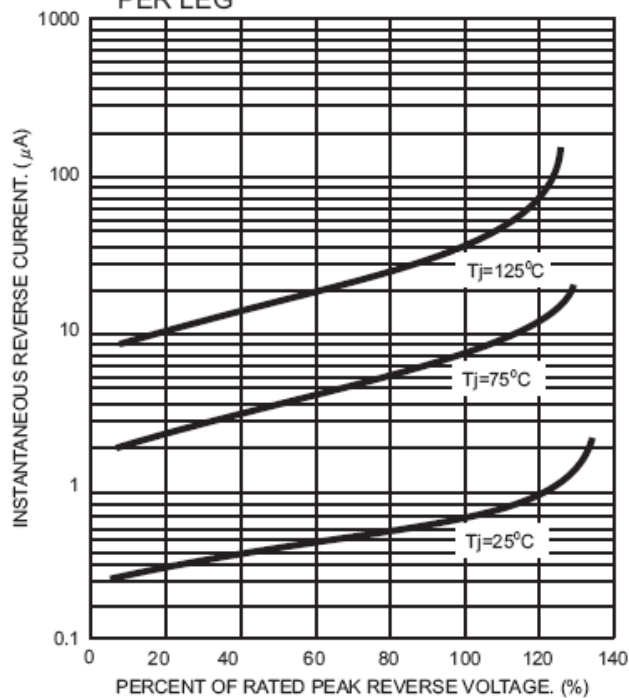
FIG.4- TYPICAL REVERSE CHARACTERISTICS PER LEG

FIG.5- TYPICAL JUNCTION CAPACITANCE