RGPP1Q

GLASS PASSIVATED
FAST RECOVERY RECTIFIER

VOLTAGE: 1200V **CURRENT: 1.0A**

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

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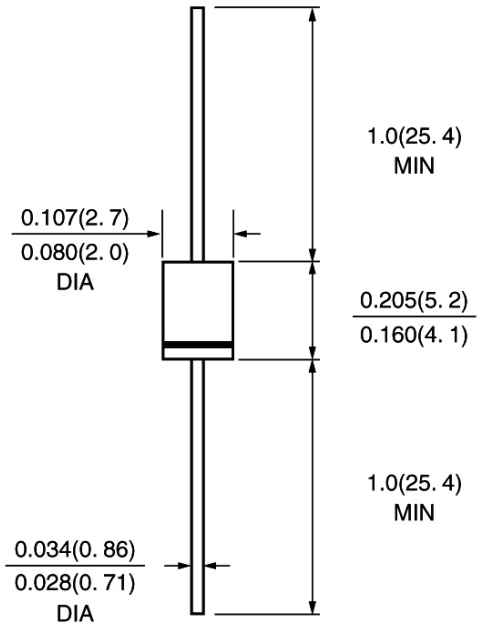

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

	SYMBOL	RGPP1Q	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1200	V
Maximum RMS Voltage	Vrms	840	V
Maximum DC blocking Voltage	Vdc	1200	V
Maximum Average Forward Rectified Current 3/8" lead length at Ta =55℃	If(av)	1.0	A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	Ifsm	30.0	A
Maximum Instantaneous Forward Voltage at Rated forward current	Vf	1.3	V
Maximum DC Reverse Current Ta =25℃ At rated DC blocking voltage Ta =100℃	Ir	5.0 100.0	μA μA
Typical Junction Capacitance (Note 1)	Cj	15.0	pF
Maximum Reverse Recovery Time (Note 2)	Trr	250	nS
Storage and Operating Junction Temperature	Tstg, Tj	-55 to +150	℃

Note:
1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Test Condition If =0.5A, Ir =1.0A, Irr =0.25A

RATINGS AND CHARACTERISTIC CURVES RGPP1Q

FIG. 1 - FORWARD CURRENT DERATING CURVE

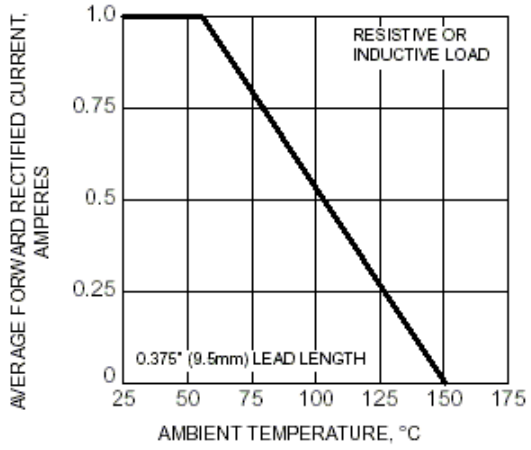

FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

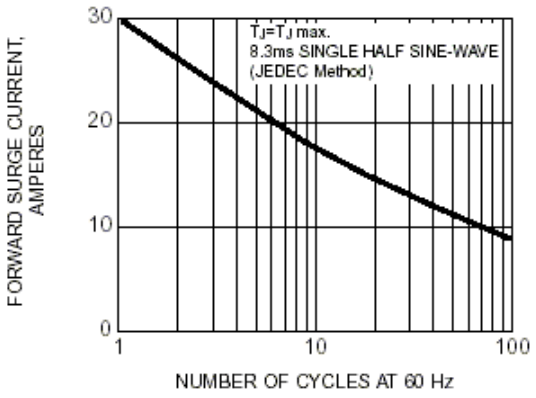

FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

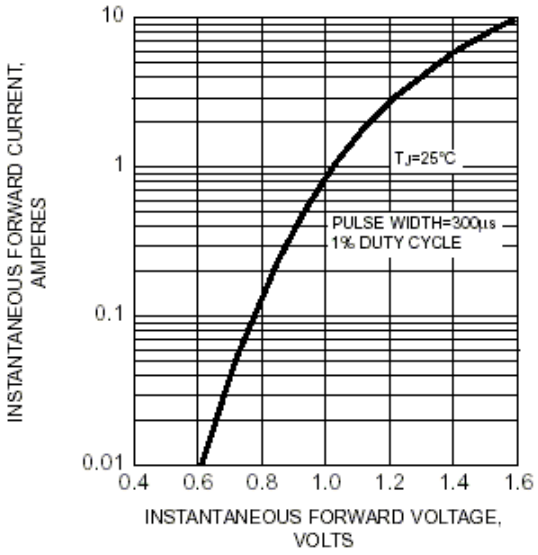

FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

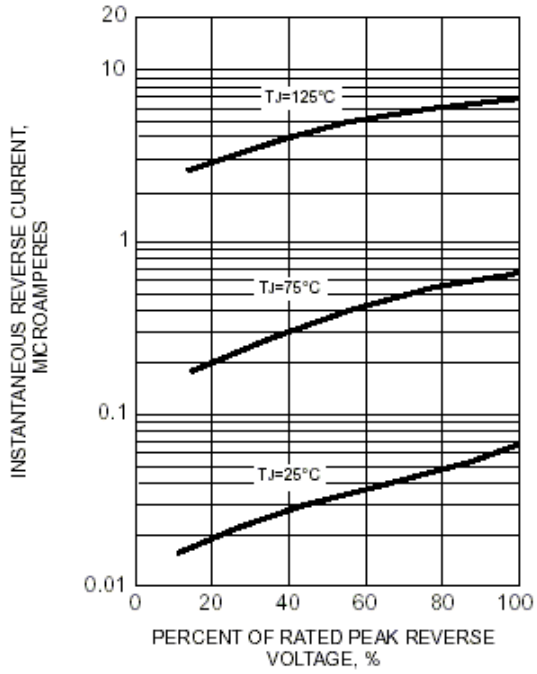

FIG. 5 - TYPICAL JUNCTION CAPACITANCE

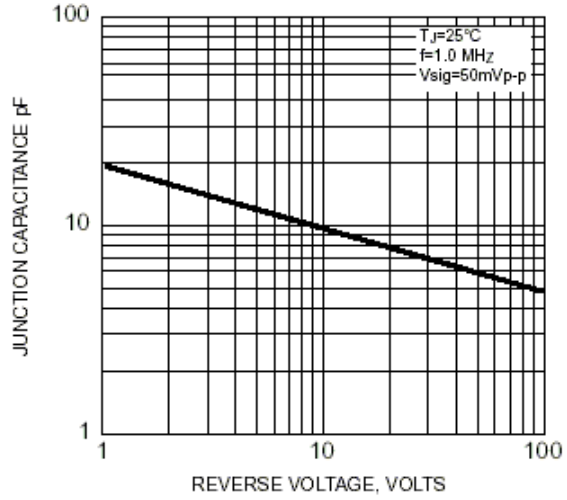

FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE