

# RU1JG

## GLASS PASSIVATED FAST RECOVERY RECTIFIER

VOLTAGE: 600V

CURRENT: 1.0A



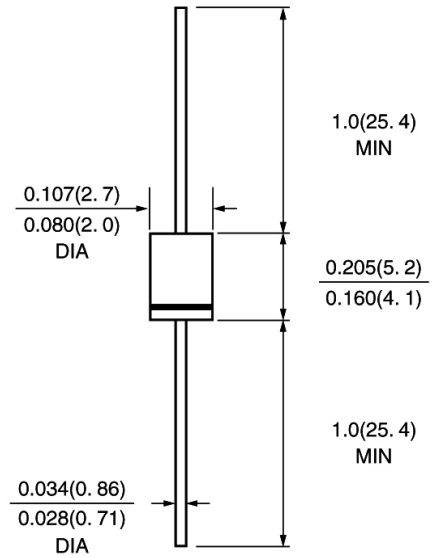
### FEATURE

Molded case feature for auto insertion  
High current capability  
Low leakage current  
Fast switching capability  
High temperature soldering guaranteed  
250°C /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 - 41\DO- 204AL



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	RU1JG	units
Maximum Recurrent Peak Reverse Voltage	V <sub>rrm</sub>	600	V
Maximum RMS Voltage	V <sub>rms</sub>	420	V
Maximum DC blocking Voltage	V <sub>dc</sub>	600	V
Maximum Average Forward Rectified Current 3/8" lead length at T <sub>a</sub> =55°C	I <sub>f(av)</sub>	1.0	A
Peak Forward Surge Current 8.3ms single Half sine-wave superimposed on rated load	I <sub>fsm</sub>	30.0	A
Maximum Instantaneous Forward Voltage at Rated forward current	V <sub>f</sub>	1.3	V
Maximum DC Reverse Current T <sub>a</sub> =25°C At rated DC blocking voltage T <sub>a</sub> =100°C	I <sub>r</sub>	10.0 100.0	μA
Typical Junction Capacitance (Note 1)	C <sub>j</sub>	15.0	pF
Maximum Reverse Recovery Time (Note 2)	T <sub>rr</sub>	100	nS
Storage and Operating Junction Temperature	T <sub>stg</sub> , T <sub>j</sub>	-55 to +150	°C

#### Note:

1. Measured at 1.0 MHz and applied voltage of 4.0Vdc
2. Test Condition I<sub>f</sub> =0.5A, I<sub>r</sub> =1.0A, I<sub>rr</sub> =0.25A

Rev.A5

www.gulfsemi.com

## RATINGS AND CHARACTERISTIC CURVES RU1JG

FIG. 1 - FORWARD CURRENT DERATING CURVE

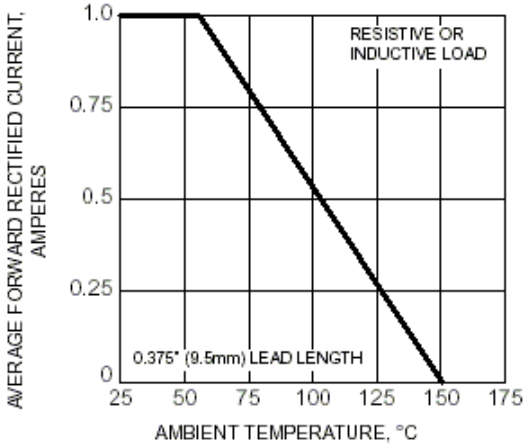


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

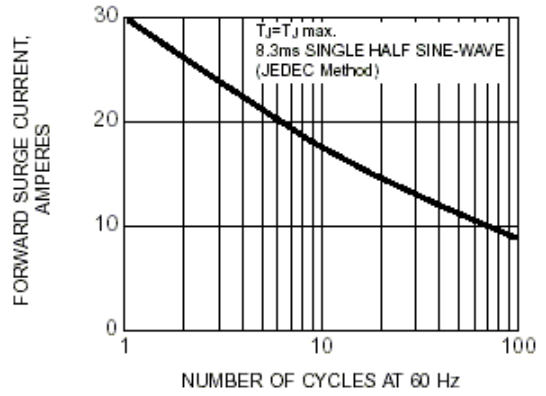


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

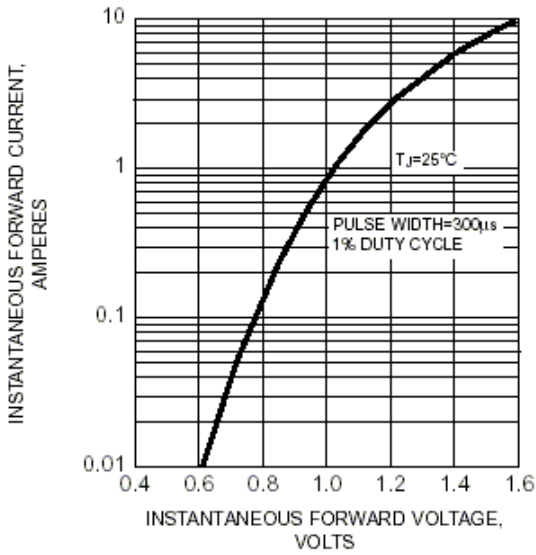


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

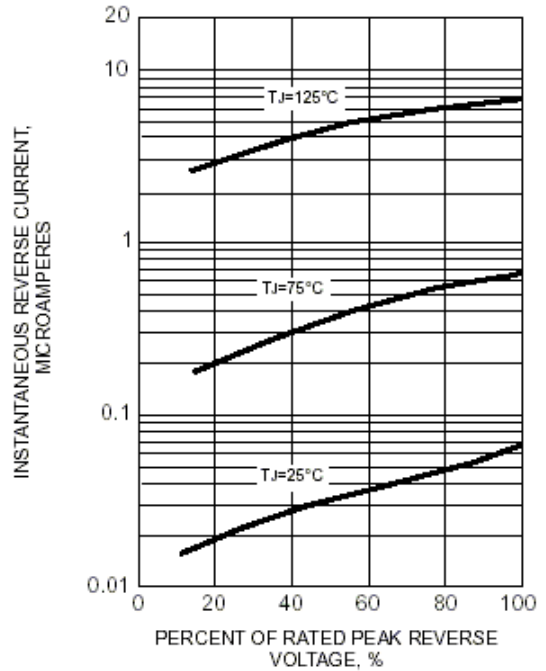


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

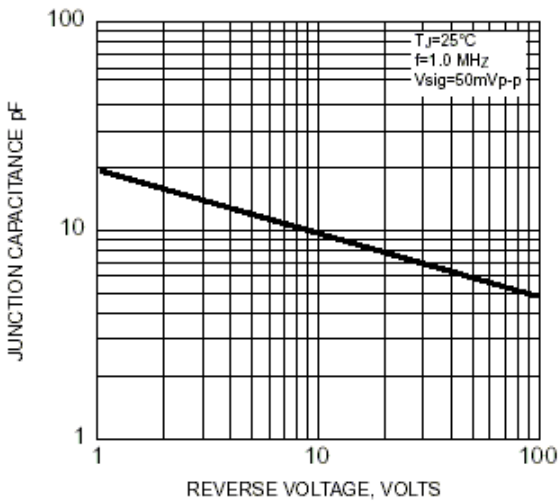


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

