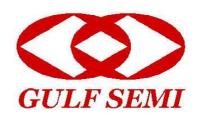
## RU4C

# GLASS PASSIVATED FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE: 1050V CURRENT: 3.0A



### **FEATURE**

High temperature metallurgically bonded construction Sintered glass cavity free junction Capability of meeting environmental standard of MIL-S-19500

High temperature soldering guaranteed  $350^{\circ}$ C /10sec/0.375"lead length at 5 lbs tension Operate at Ta =55°C with no thermal run away Typical Ir<0.2 $\mu$ A

Low power loss, high efficient

### **MECHANICAL DATA**

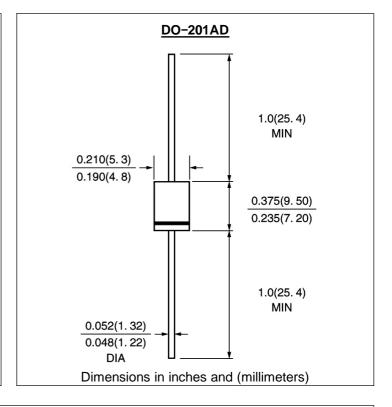
Terminal: Plated axial leads solderable per MIL-STD 202E, method 208C

Case: Molded with UL-94 Class V-0 recognized Flame

Retardant Epoxy

Polarity: Color band denotes cathode

Mounting position: any



### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

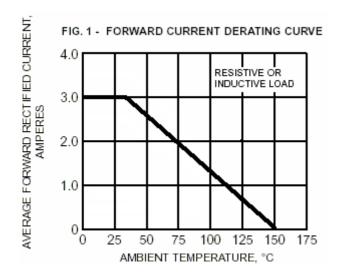
	SYMBOL	RU4C	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	1050	V
Maximum RMS Voltage	Vrms	735	V
Maximum DC blocking Voltage	Vdc	1050	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =35°C	If(av)	3.0	А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	80	А
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.3	V
Maximum full load reverse current full cycle average at 55°C Ambient	Ir(av)	100	μΑ
Maximum DC Reverse Current at rated DC blocking voltage $Ta = 25^{\circ}C$ $Ta = 125^{\circ}C$	Ir	5.0 100	μΑ
Maximum Reverse Recovery Time (Note 1)	Trr	120	nS
Typical Junction Capacitance (Note 2)	Cj	15	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	50	°C /W
Storage and Operating Temperature Range	Tstg, Tj	-55 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

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#### RATINGS AND CHARACTERISTIC CURVES RU4C





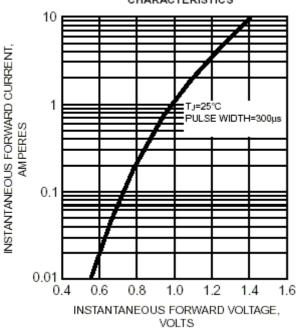


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

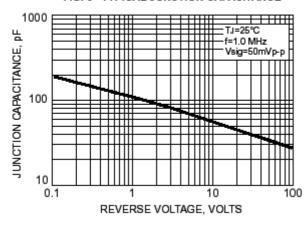


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

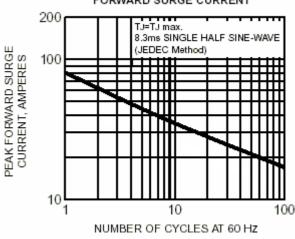


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

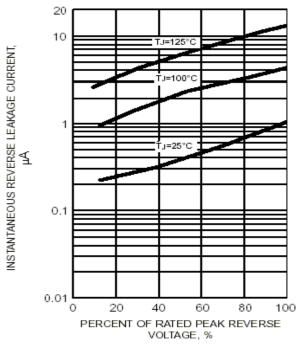
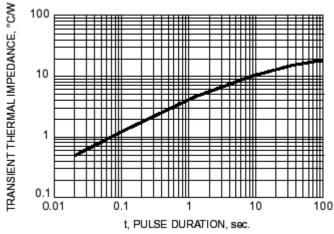


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE



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