

RU2AGF THRU RU2JGF

**SINTERED GLASS JUNCTION
FAST SWITCHING PLASTIC RECTIFIER**
VOLTAGE:50 TO 1000V CURRENT: 1.5A



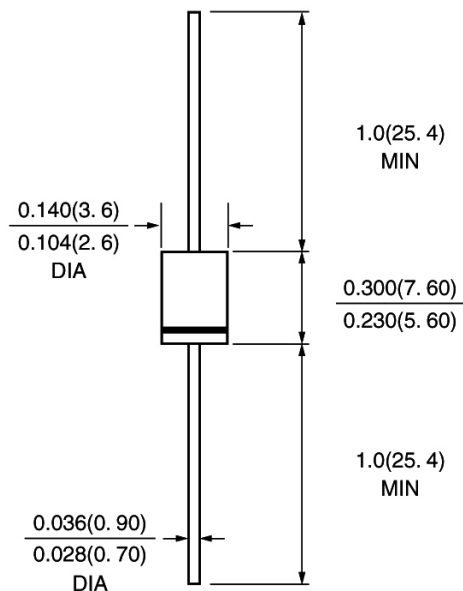
FEATURE

High temperature metallurgically bonded construction
Sintered glass cavity free junction
Capability of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed
350°C /10sec/0.375"lead length at 5 lbs tension
Operate at Ta =55°C with no thermal run away
Typical Ir<0.2μA
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

DO-15DO-204AC



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	RU2A GF	RU2B GF	RU2D GF	RU2G GF	RU2J GF	units	
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	V	
Maximum RMS Voltage	Vrms	35	70	140	280	420	V	
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	V	
Maximum Average Forward Rectified Current 3/8"lead length at Ta =55°C	If(av)	1.5						A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	50						A
Maximum Forward Voltage at rated Forward Current and 25°C	Vf	1.1			1.4	1.7	V	
Maximum full load reverse current full cycle average at 55°C Ambient	Ir(av)	100						μA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =150°C	Ir	10 100						μA μA
Typical Reverse Recovery Time (Note 1)	Trr	50				75	nS	
Typical Junction Capacitance (Note 2)	Cj	40				50	pF	
Typical Thermal Resistance (Note 3)	R(ja)	20						°C /W
Storage and Operating Temperature Range	Tstg, Tj	-65 to +175						°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

RATINGS AND CHARACTERISTIC CURVES RU2AGF THRU RU2JGF

1

FIG. 1 - FORWARD CURRENT DERATING CURVE

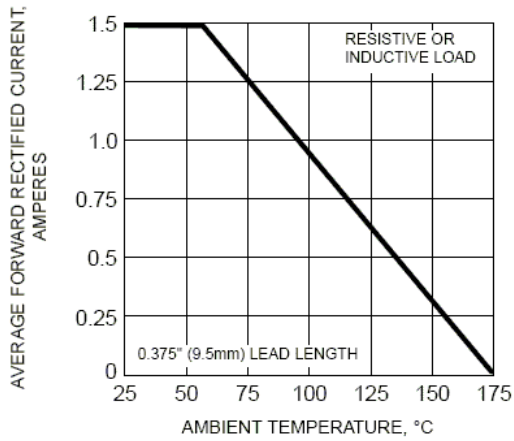


FIG. 2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

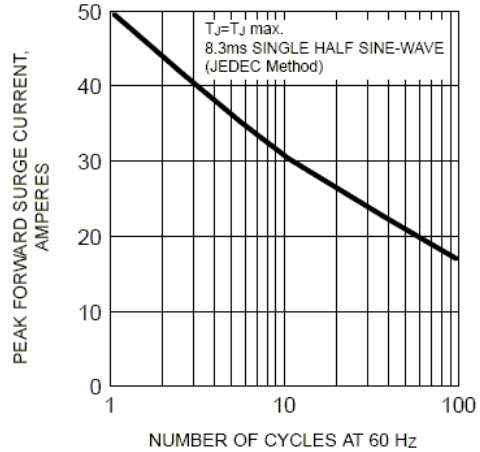


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

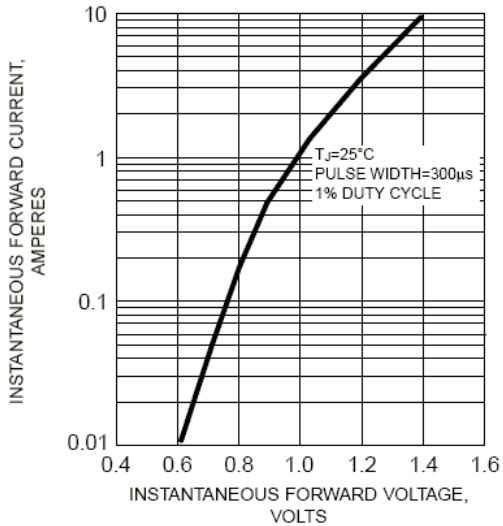


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS

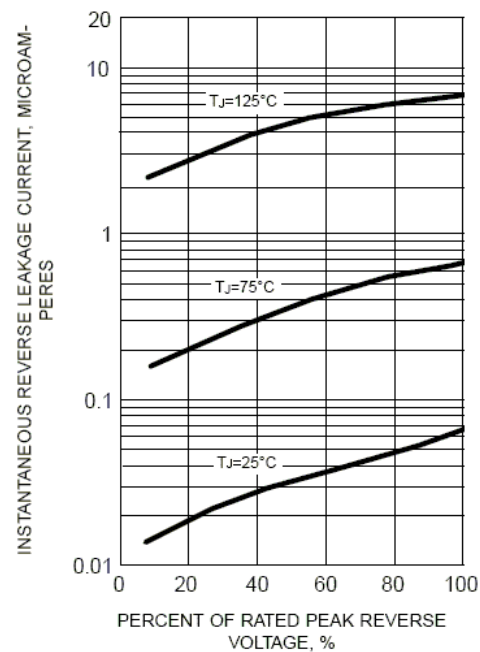


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

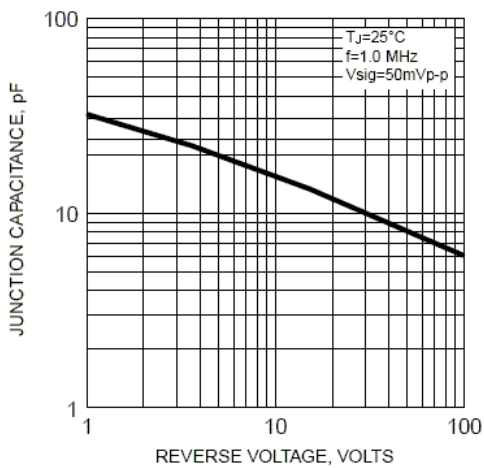


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE

