RU4JMG

GLASS PASSIVATED FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE:600V **CURRENT:2.0A**

VOLTARISTECH INC.
POWER • PRECISION • INNOVATION

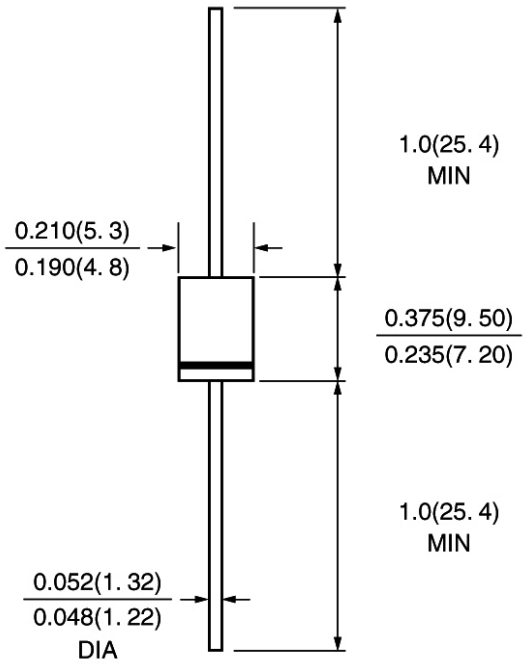
FEATURE

High temperature metallurgically bonded construction
Sintered glass cavity free junction
Capability of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed 250°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−201AD



Dimensions in inches and (millimeters)

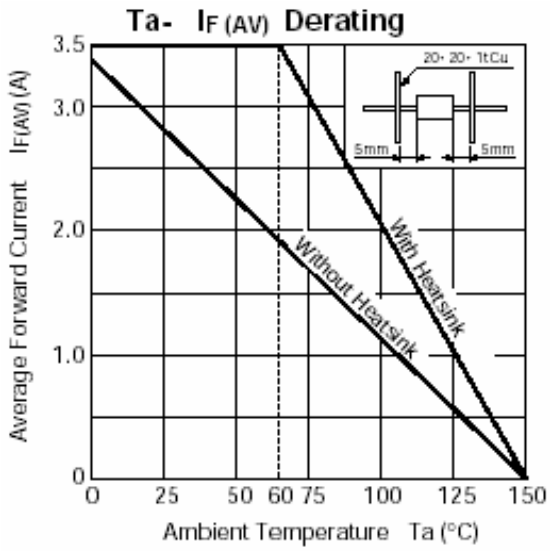
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

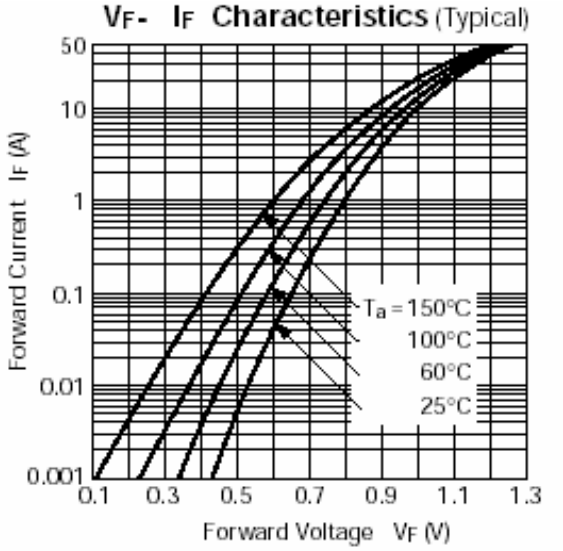
(single-phase, half-wave, 50HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	RU4JMG	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking Voltage	Vdc	600	V
Maximum Average Forward Rectified Current 3/8"lead length at Ta =35°C	If(av)	2.0(3.5)	A
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	Ifsm	70	A
Maximum Forward Voltage at rated Forward Current and 25°C IF=3.5A	Vf	1.3	V
Maximum full load reverse current full cycle average at 55°C Ambient	Ir(av)	200	μA
Maximum DC Reverse Current Ta =25°C at rated DC blocking voltage Ta =125°C	Ir	10 300	μA μA
Maximum Reverse Recovery Time (Note 1)	Trr	130	nS
Typical Junction Capacitance (Note 2)	Cj	80	pF
Typical Thermal Resistance (Note 3)	Rth(ja)	10	°C /W
Storage and Operating Temperature Range	Tstg, Tj	-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

RATINGS AND CHARACTERISTIC CURVES RU4JMG





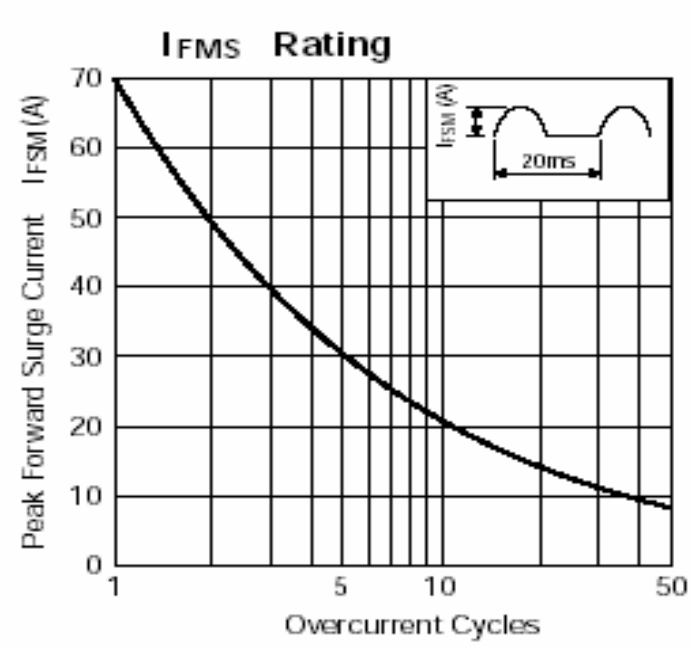


FIG. 5 - TYPICAL JUNCTION CAPACITANCE

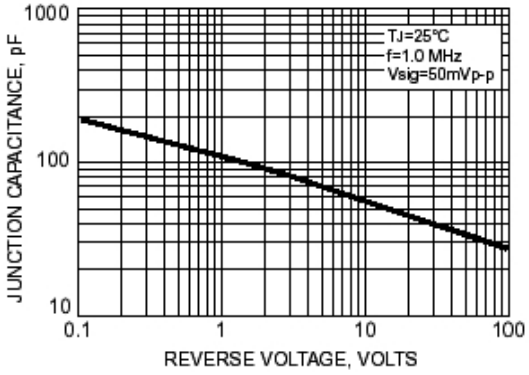


FIG. 6 - TYPICAL TRANSIENT THERMAL IMPEDANCE