

RU4JMG

GLASS PASSIVATED FAST SWITCHING PLASTIC RECTIFIER

VOLTAGE:600V

CURRENT:2.0A

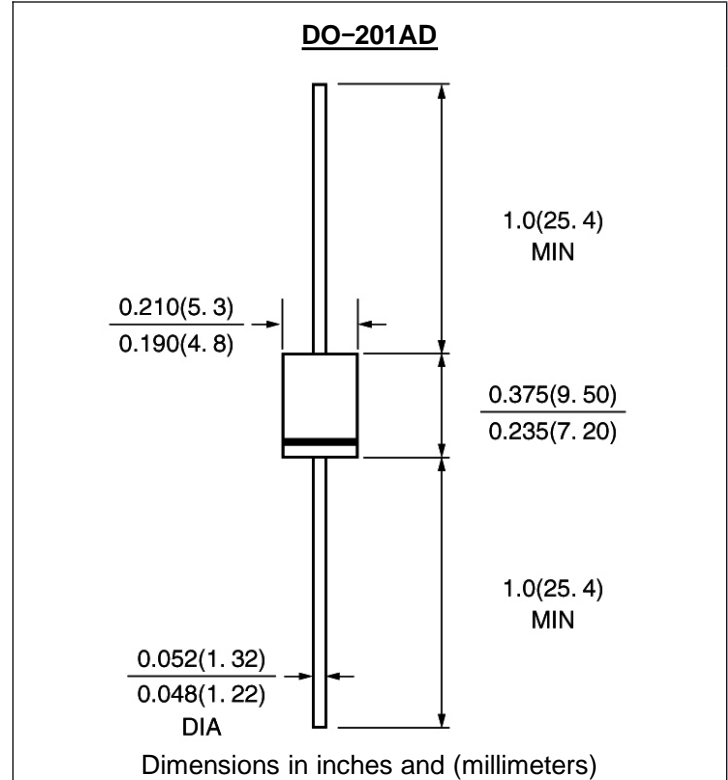


FEATURE

High temperature metallurgically bonded construction
Sintered glass cavity free junction
Capability of meeting environmental standard of MIL-S-19500
High temperature soldering guaranteed
250°C /10sec/0.375"lead length at 5 lbs tension
Operate at $T_a = 55^\circ\text{C}$ with no thermal run away
Typical $I_r < 0.2\mu\text{A}$
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, 50HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	SYMBOL	RU4JMG	units
Maximum Recurrent Peak Reverse Voltage	V _{rrm}	600	V
Maximum RMS Voltage	V _{rms}	420	V
Maximum DC blocking Voltage	V _{dc}	600	V
Maximum Average Forward Rectified Current 3/8"lead length at $T_a = 35^\circ\text{C}$	I _{f(av)}	2.0(3.5)	A
Peak Forward Surge Current 10ms single half sine-wave superimposed on rated load	I _{fsm}	70	A
Maximum Forward Voltage at rated Forward Current and 25°C $I_F = 3.5\text{A}$	V _f	1.3	V
Maximum full load reverse current full cycle average at 55°C Ambient	I _{r(av)}	200	μA
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at rated DC blocking voltage $T_a = 125^\circ\text{C}$	I _r	10 300	μA μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	130	nS
Typical Junction Capacitance (Note 2)	C _j	80	pF
Typical Thermal Resistance (Note 3)	R _{th(ja)}	10	$^\circ\text{C}/\text{W}$
Storage and Operating Temperature Range	T _{stg} , T _j	-50 to +150	$^\circ\text{C}$

Note:

1. Reverse Recovery Condition $I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$
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

