



RU4 - RU4B

PRV : 400 - 800 Volts
Io : 1.5 Amperes

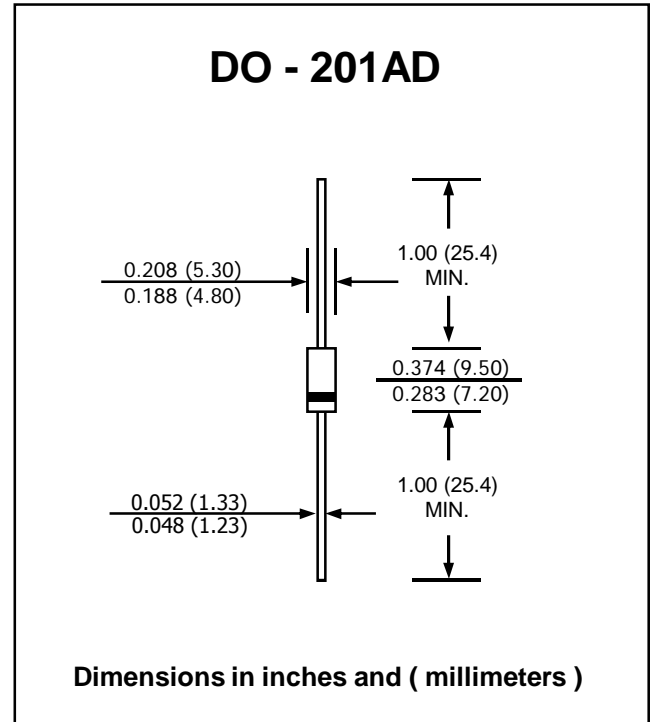
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-201AD Molded plastic
- * Epoxy : UL94V-O rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 1.16 grams

FAST RECOVERY RECTIFIERS DIODES



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.
 Single phase, half wave, 60 Hz, resistive or inductive load.
 For capacitive load, derate current by 20%.

RATING	SYMBOL	RU4	RU4A	RU4B	UNIT
Maximum Peak Reverse Voltage	VRM	400	600	800	V
Maximum Peak Reverse Surge Voltage	VRSM	450	650	850	V
Maximum Average Rectified Forward Current Ta = 60 °C	IF(AV)	1.5			A
		3.0 (with Heatsink)			
Peak Forward Surge Current 50 Hz Half-cycle Sinewave Single Shot	IFSM	50			A
Maximum Forward Voltage at IF = 3 A	VF	1.5		1.6	V
Maximum Forward Current	IF	3.0			A
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	IR	10			µA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	IR(H)	300		500	µA
Maximum Reverse Recovery Time (Note 1)	Trr	0.4			µs
Junction Temperature Range	TJ	- 40 to + 150			°C
Storage Temperature Range	TSTG	- 40 to + 150			°C

Notes :

(1) Reverse Recovery Test Conditions : IF = 10 mA, IRP = 10 mA.

RATING AND CHARACTERISTIC CURVES (RU4 - RU4B)

FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM

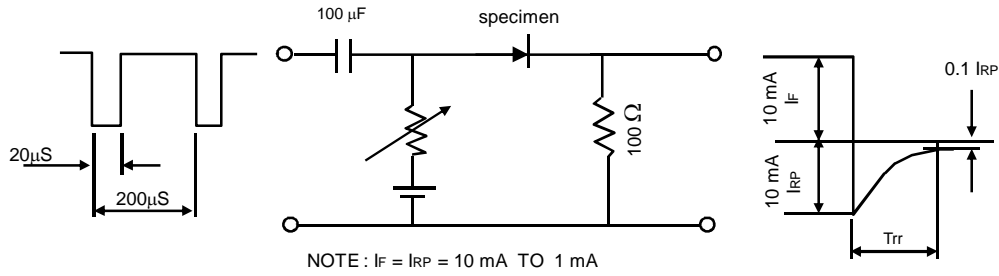


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

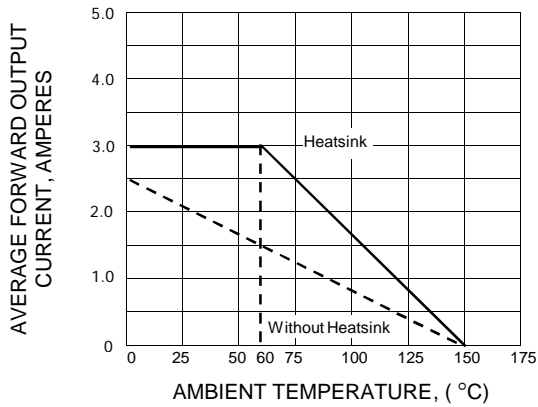


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

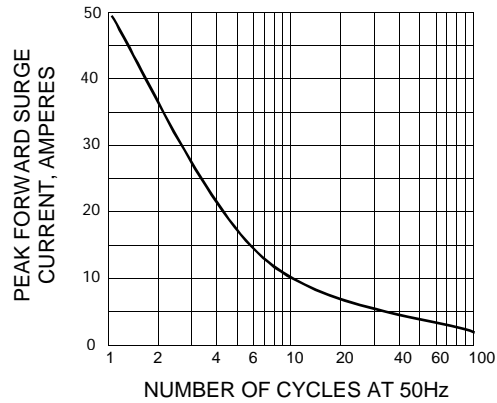


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

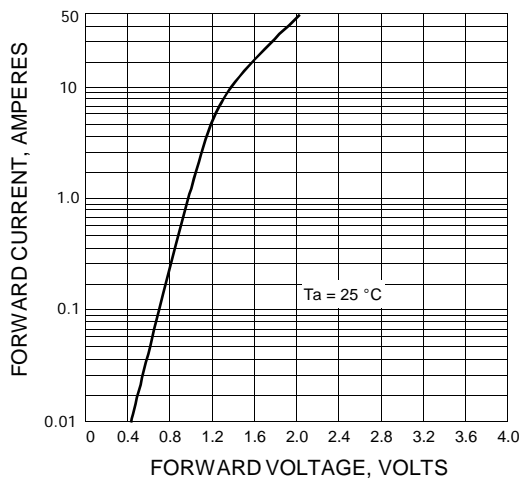


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

