

# RU4D

**PRV : 1300 Volts**  
**Io : 1.5 Amperes**

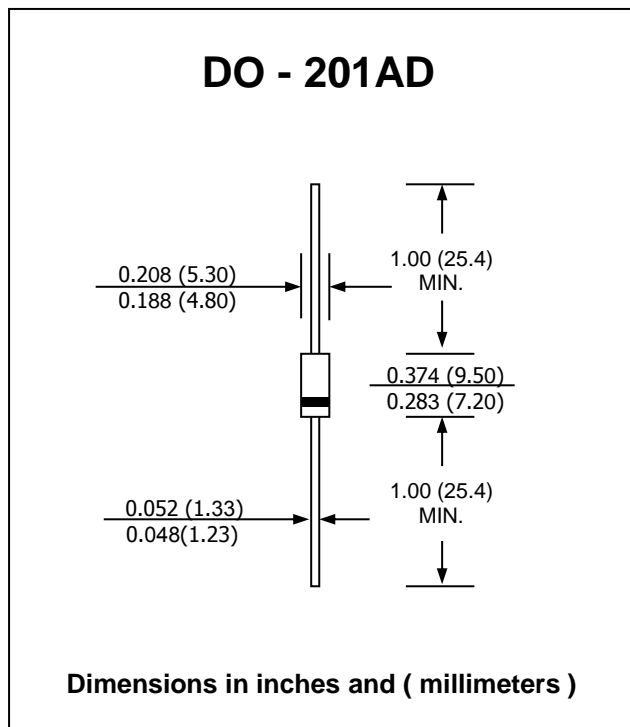
### FEATURES :

- \* 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

# DAMPER DIODE



### 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	VALUE	UNIT
Maximum Peak Reverse Voltage	VRM	1300	V
Maximum Average Rectified Forward Current , Ta = 85 °C	IF(AV)	1.5	A
Peak Forward Surge Current 50 Hz Half-cycle Sinewave Single Shot	IFSM	50	A
Maximum Forward Voltage at IF = 1.5 A	VF	1.8	V
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	IR	50	μA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	IR(H)	500	μA
Maximum Reverse Recovery Time ( Note 1 )	Trr	180	ns
Thermal Resistance ( Junction to Lead )	RθJL	8.0	°C/W
Junction Temperature Range	TJ	- 40 to + 150	°C
Storage Temperature Range	TSTG	- 40 to + 150	°C

### Note :

( 1 ) Reverse Recovery Test Conditions : IF = 500 mA, I<sub>RP</sub> = 1000 mA

## RATING AND CHARACTERISTIC CURVES ( RU4D )

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

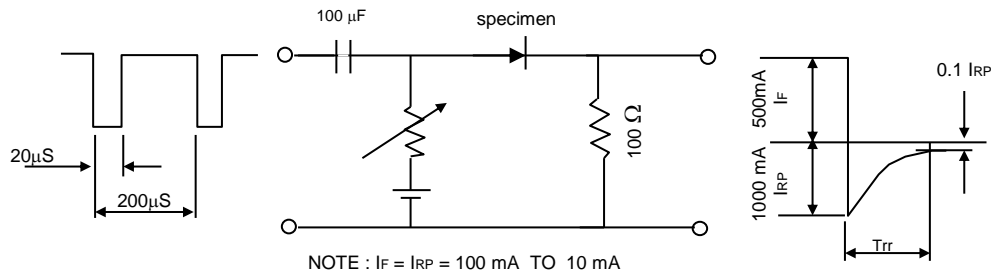


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

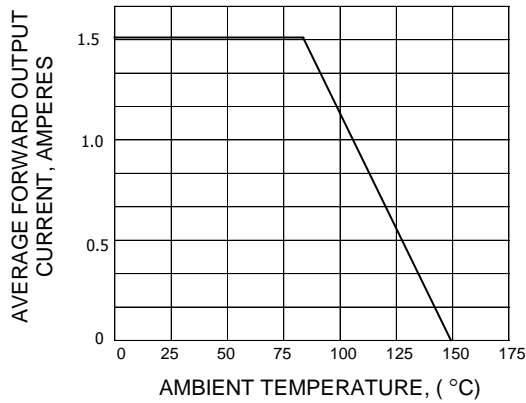


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

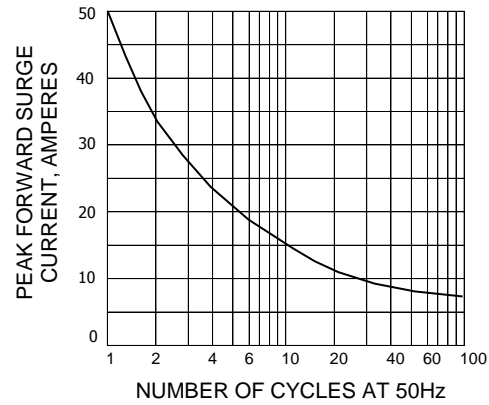


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

