

# RU4DS

**PRV : 1300 Volts**  
**Io : 2.5 Amperes**

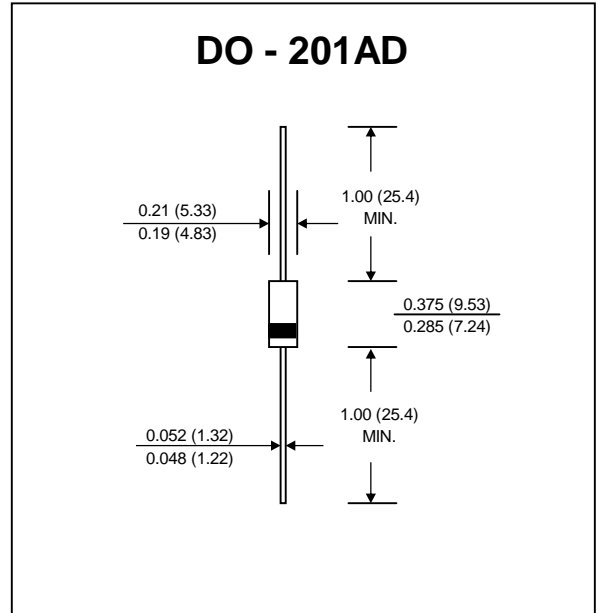
**FEATURES :**

- \* 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 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%.

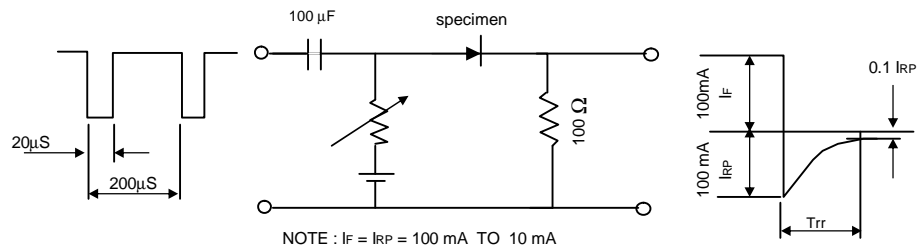
RATING	SYMBOL	VALUE	UNIT
Maximum Peak Reverse Voltage	V <sub>RM</sub>	1300	V
Maximum Average Rectified Forward Current , Ta = 60 °C	I <sub>F(AV)</sub>	1.5	A
		2.5 (with Heatsink)	
Peak Forward Surge Current 50 Hz Half-cycle Sinewave Single Shot	I <sub>FSM</sub>	50	A
Maximum Forward Voltage at I <sub>F</sub> = 3 A	V <sub>F</sub>	1.8	V
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	I <sub>R</sub>	50	µA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	I <sub>R(H)</sub>	500	µA
Maximum Reverse Recovery Time ( Note 1 )	T <sub>rr</sub>	0.4	µs
Thermal Resistance ( Junction to Lead )	R <sub>θJL</sub>	8.0	°C/W
Junction Temperature Range	T <sub>J</sub>	- 40 to + 150	°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150	°C

**Note :**

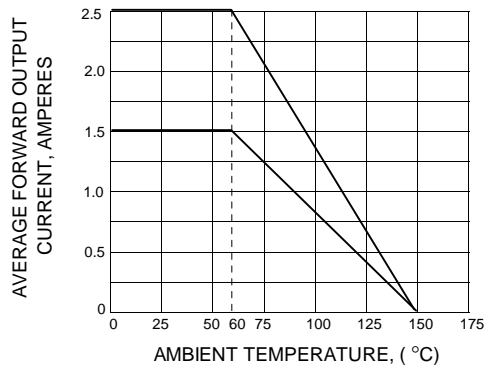
( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 500 mA, I<sub>FP</sub> = 500 mA.

## RATING AND CHARACTERISTIC CURVES ( RU4DS )

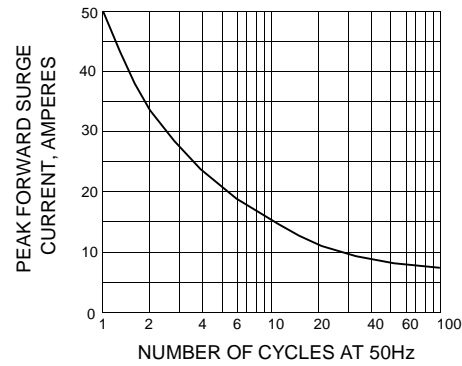
**FIG.1 - REVERSE RECOVERY TIME CHARACTERISTIC AND TEST CIRCUIT DIAGRAM**



**FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT**



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



**FIG.4 - TYPICAL FORWARD CHARACTERISTICS**

