

RU4DS

PRV : 1300 Volts
Io : 2.5 Amperes

FEATURES :

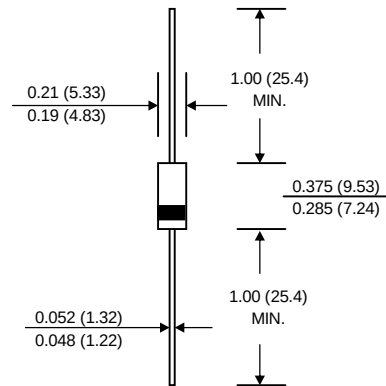
- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

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

DO - 201AD



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_{RM}	1300	V
Maximum Average Rectified Forward Current , Ta = 60 °C	$I_{F(AV)}$	1.5	A
		2.5 (with Heatsink)	
Peak Forward Surge Current 50 Hz Half-cycle Sinewave Single Shot	I_{FSM}	50	A
Maximum Forward Voltage at $I_F = 3$ A	V_F	1.8	V
Maximum Reverse Current at Reverse Voltage Ta = 25 °C	I_R	50	μA
Maximum Reverse Current at Reverse Voltage Ta = 100 °C	$I_{R(H)}$	500	μA
Maximum Reverse Recovery Time (Note 1)	T_{rr}	0.4	μs
Thermal Resistance (Junction to Lead)	$R_{\theta JL}$	8.0	°C/W
Junction Temperature Range	T_J	- 40 to + 150	°C
Storage Temperature Range	T_{STG}	- 40 to + 150	°C

Note :

(1) Reverse Recovery Test Conditions : $I_F = 500$ mA, $I_{RP} = 500$ mA.

RATING AND CHARACTERISTIC CURVES (RU4DS)

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

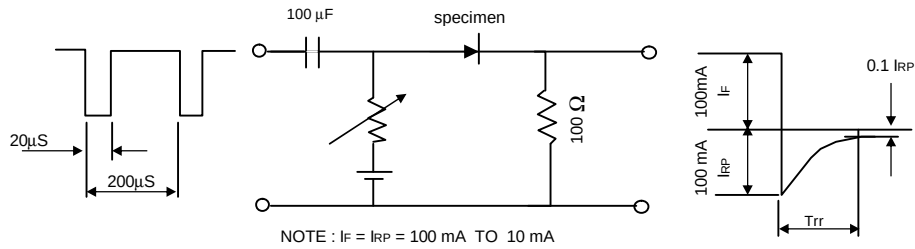


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

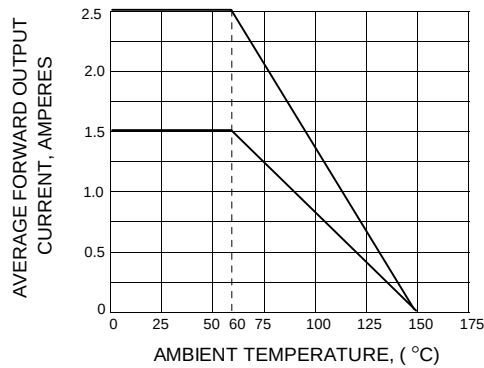


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

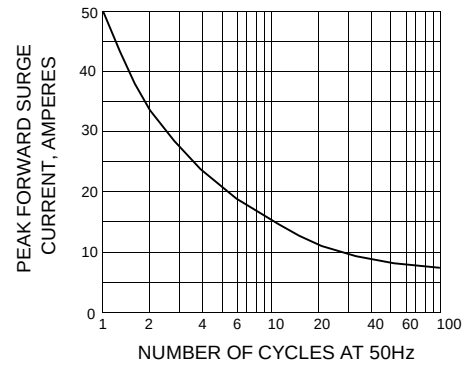


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

