

RU1 - RU1B

PRV : 400 - 800 Volts
Io : 0.25 Ampere

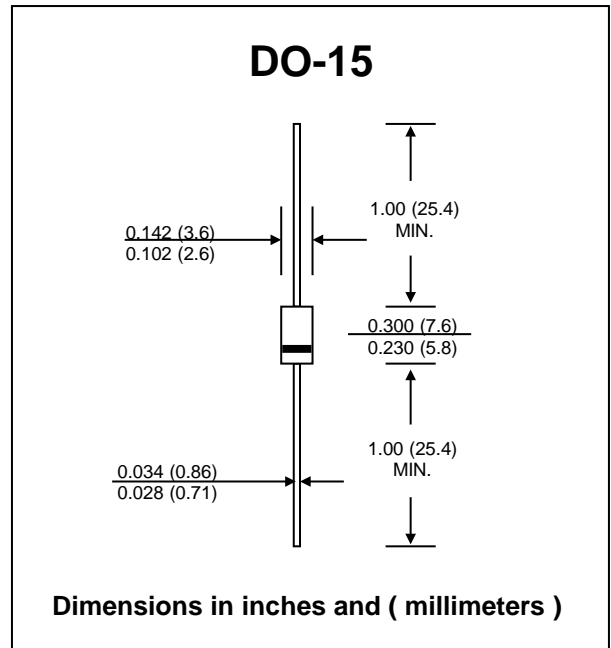
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Fast switching for high efficiency
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : DO-15 Molded plastic
- * Epoxy : UL94V-0 rate flame retardant
- * Lead : Axial lead solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Color band denotes cathode end
- * Mounting position : Any
- * Weight : 0.4 gram

FAST RECOVERY RECTIFIER 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	RU1	RU1A	RU1B	UNIT
Maximum Peak Reverse Voltage	V _{RM}	400	600	800	V
Maximum Peak Reverse Surge Voltage	V _{RSM}	450	650	850	V
Maximum Average Forward Current Ta = 50 °C	I _{F(AV)}	0.25			A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot)	I _{FSM}	15			A
Maximum Forward Voltage at I _F = 0.25 A	V _F	2.5			V
Maximum Reverse Current at V _R = V _{RM} Ta = 25 °C	I _R	10			μA
Maximum Reverse Current at V _R = V _{RM} Ta = 100 °C	I _{R(H)}	200			μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	400			ns
Junction Temperature Range	T _J	- 40 to + 130			°C
Storage Temperature Range	T _{STG}	- 40 to + 130			°C

Notes :

(1) Reverse Recovery Test Conditions : I_F = 10 mA, I_{RP} = 10 mA.

RATING AND CHARACTERISTIC CURVES (RU1 - RU1B)

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

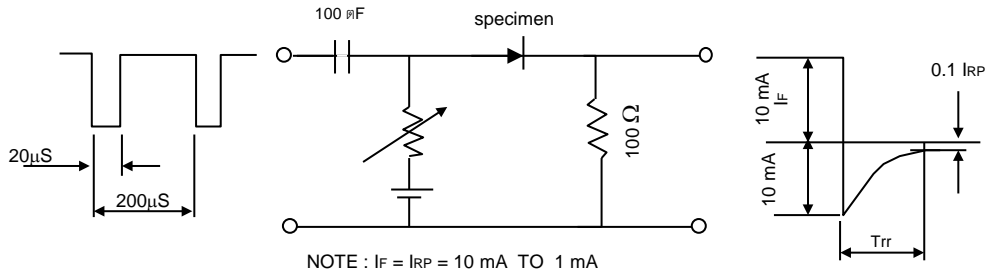


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

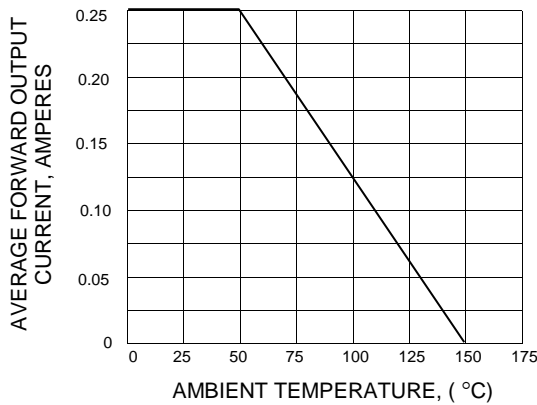


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

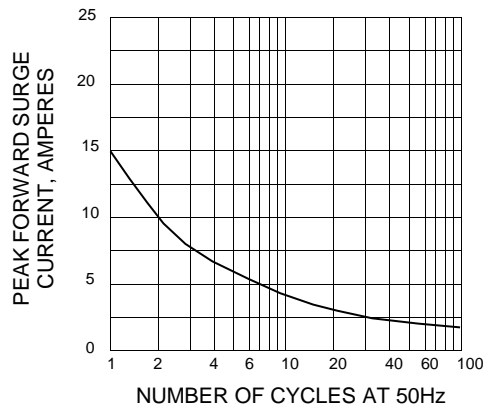


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

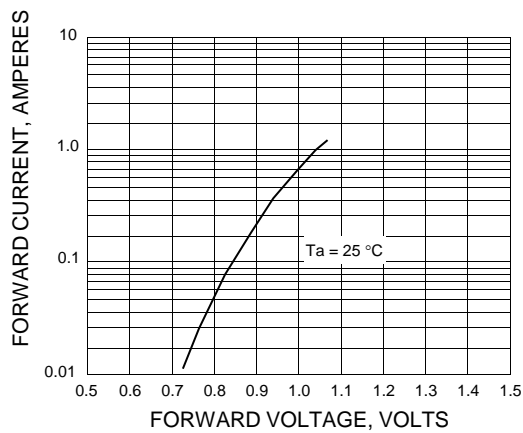


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

