

RU3 - RU3C

PRV : 400 - 1000 Volts
Io : 1.5 Amperes

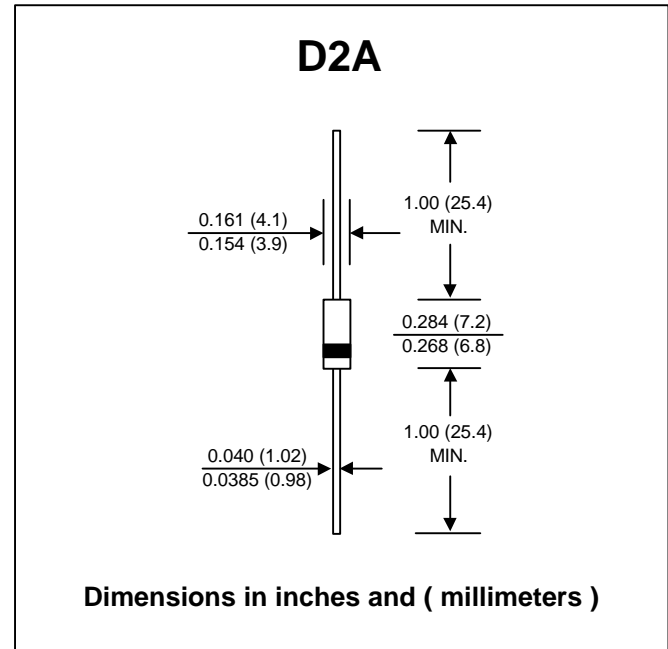
FEATURES :

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

MECHANICAL DATA :

- * Case : D2A 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 : 0.645 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	RU3	RU3A	RU3B	RU3C	UNIT
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	400	600	800	1000	V
Maximum Average Forward Current Ta = 55 °C	I _{F(AV)}	1.5				A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle , Sine wave, Single Shot)	I _{FSM}	30				A
Maximum Forward Voltage at I _F = 1.5 Amps.	V _F	1.5			2.0	V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	I _R	10				μA
	I _{R(H)}	400				μA
Maximum Reverse Recovery Time (Note 1)	T _{rr}	200				ns
Junction Temperature Range	T _J	- 40 to + 150				°C
Storage Temperature Range	T _{STG}	- 40 to + 150				°C

Notes :

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

RATING AND CHARACTERISTIC CURVES (RU3 - RU3C)

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

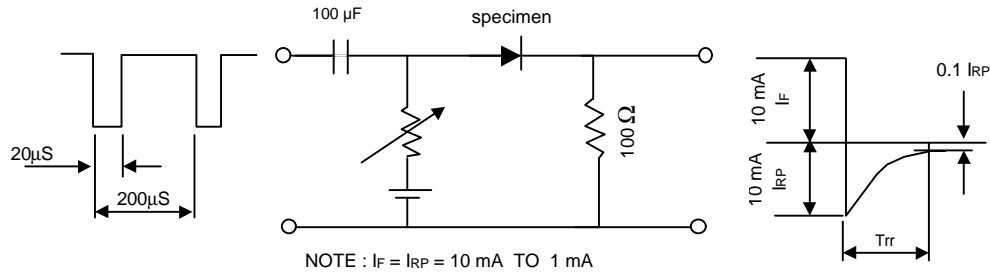


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

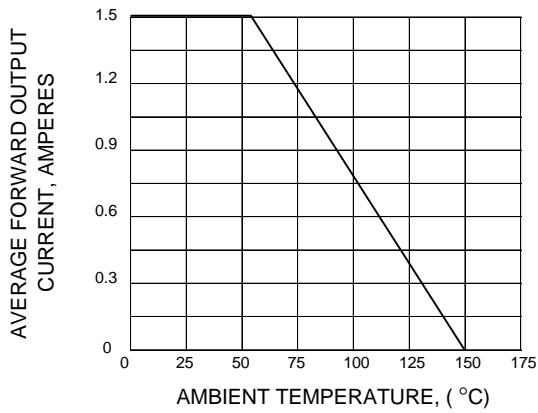


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

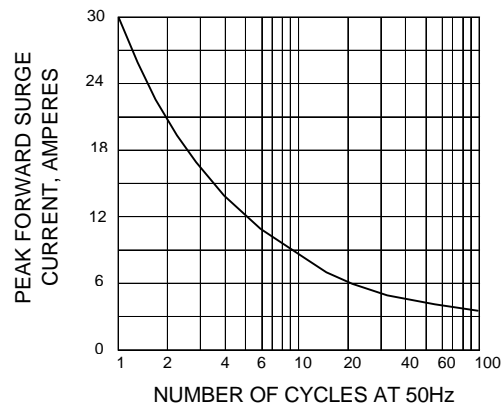


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

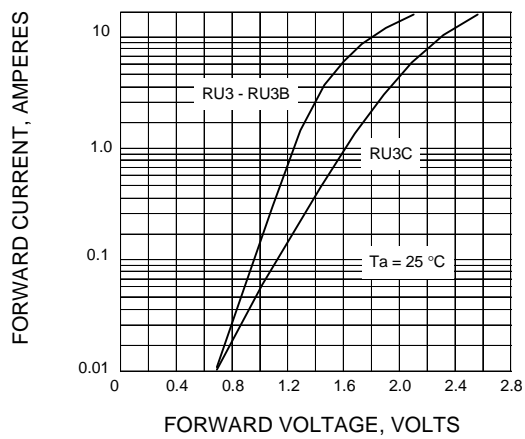


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

