

RU3 - RU3A

PRV : 400 - 600 Volts
Io : 1.5 Amperes

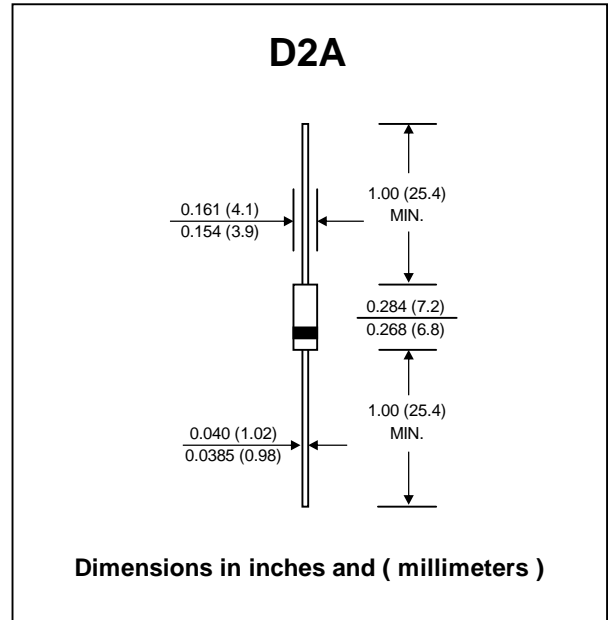
FEATURES :

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

MECHANICAL DATA :

- * Case : D2A 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 : 0.645 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	UNIT
Maximum Repetitive Peak Reverse Voltage	VRRM	400	600	V
Maximum RMS Voltage	VRMS	280	420	V
Maximum DC Blocking Voltage	VDC	400	600	V
Maximum Average Forward Current Ta = 50 °C	IF(AV)	1.5		A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle , Sine wave, Single Shot)	IFSM	20		A
Maximum Forward Voltage at IF = 1.5 Amps.	VF	1.5		V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	IR	10		µA
	IR(H)	400		µA
Maximum Reverse Recovery Time (Note 1)	Trr	400		ns
Junction Temperature Range	TJ	- 40 to + 150		°C
Storage Temperature Range	TSTG	- 40 to + 150		°C

Note :

(1) Reverse Recovery Test Conditions : IF = 10 mA, IRP = 10 mA.

RATING AND CHARACTERISTIC CURVES (RU3 - RU3A)

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

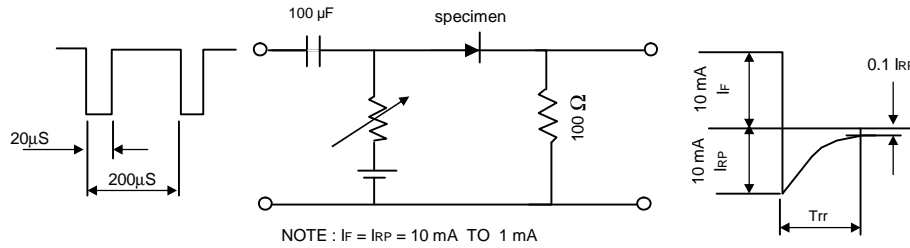


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

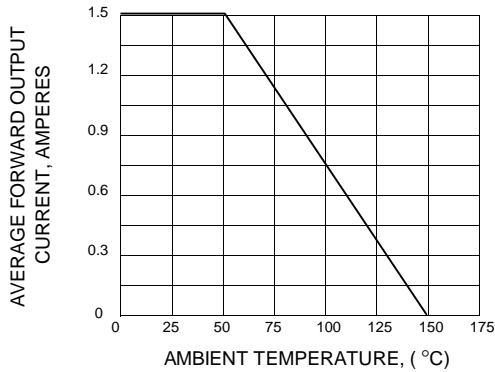


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

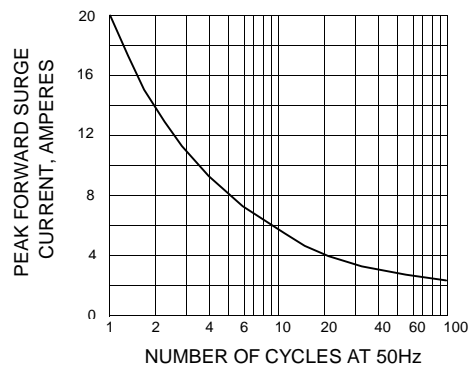


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

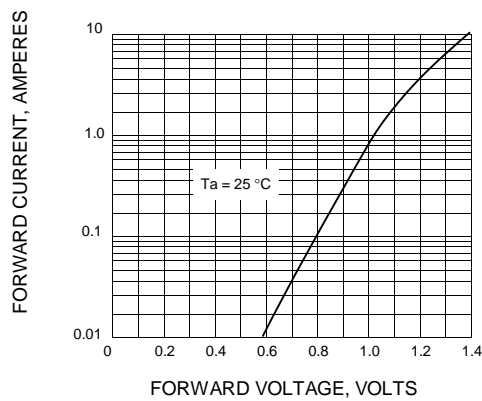


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

