

RU3 - RU3C

FAST RECOVERY RECTIFIER DIODES

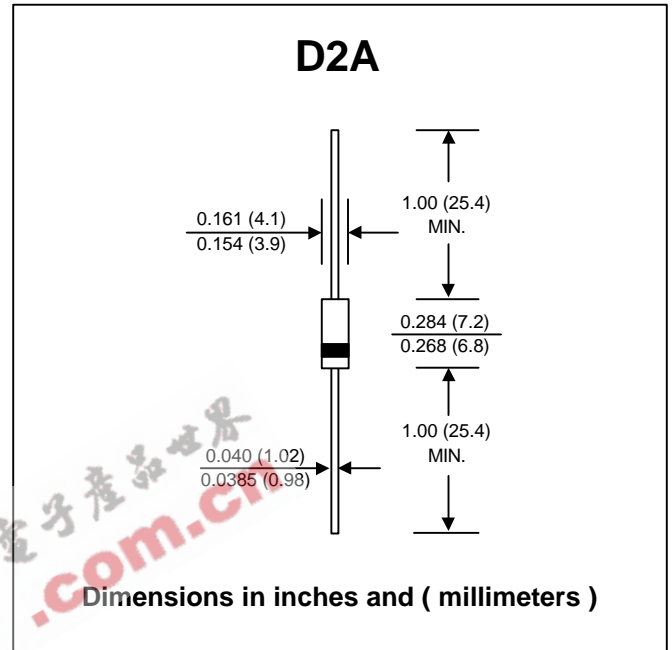
PRV : 400 - 1000 Volts
Io : 1.5 Amperes

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



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	VRRM	400	600	800	1000	V
Maximum RMS Voltage	VRMS	280	420	560	700	V
Maximum DC Blocking Voltage	VDC	400	600	800	1000	V
Maximum Average Forward Current Ta = 55 °C	IF(AV)	1.5				A
Maximum Peak Forward Surge Current (50 Hz, Half-cycle , Sine wave, Single Shot)	IFSM	30				A
Maximum Forward Voltage at IF = 1.5 Amps.	VF	1.5			2.0	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	200				ns
Junction Temperature Range	TJ	- 40 to + 150				°C
Storage Temperature Range	TSTG	- 40 to + 150				°C

Notes :

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

RATING AND CHARACTERISTIC CURVES (RU3 - RU3C)

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

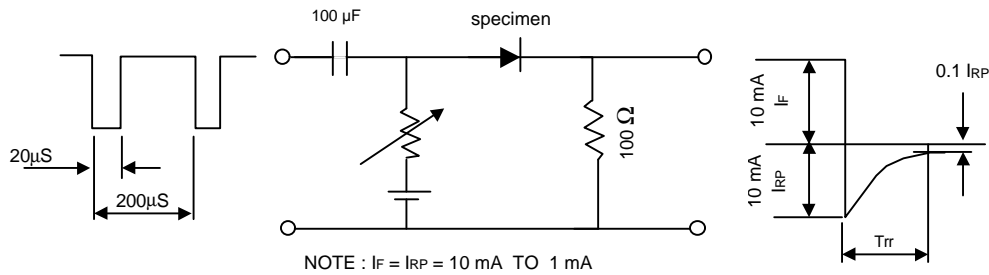


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

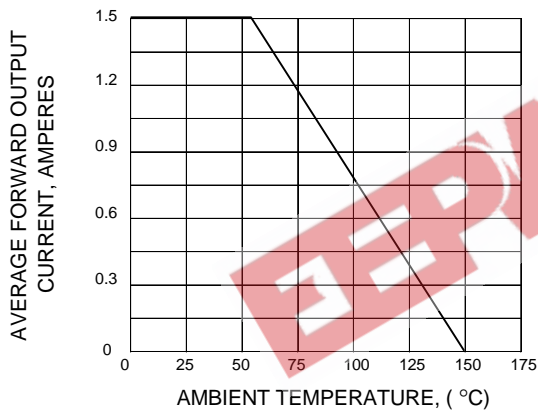


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

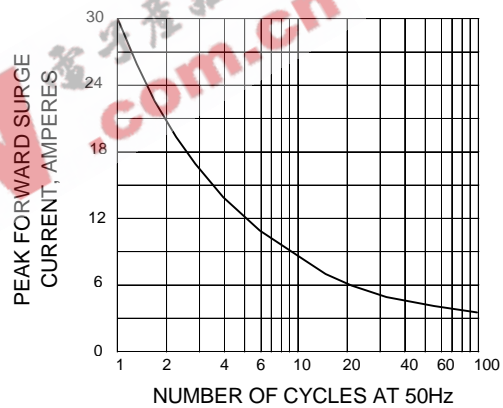


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

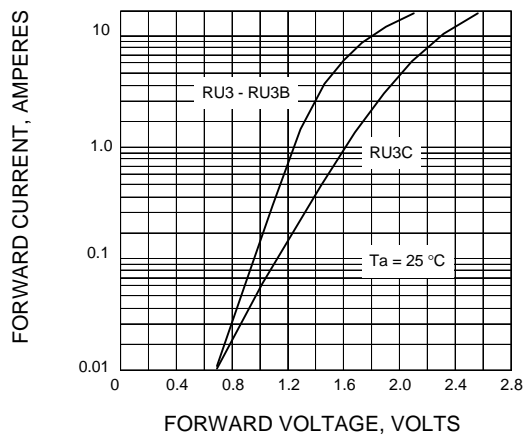


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

