

# RU3AM - RU3M

**PRV : 400 - 600 Volts**  
**Io : 1.5 Amperes**

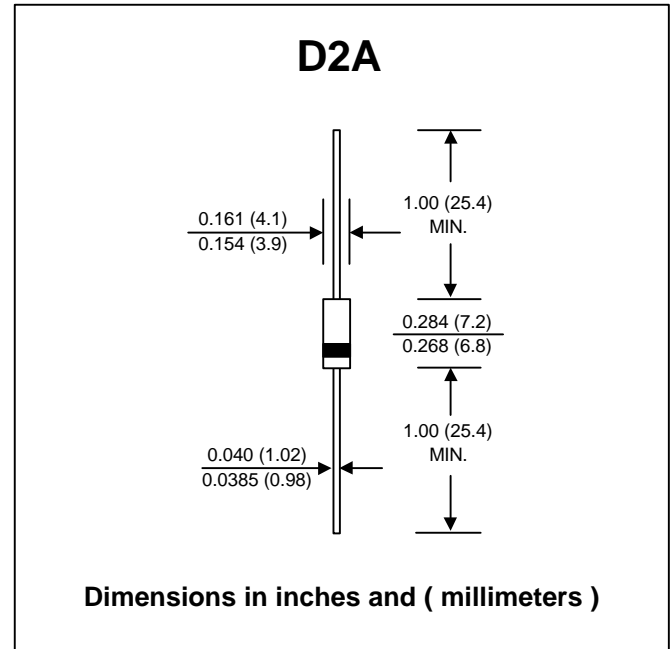
## FEATURES :

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

## 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	RU3M	RU3AM	UNIT
Maximum Repetitive Peak Reverse Voltage	V <sub>RRM</sub>	400	600	V
Maximum RMS Voltage	V <sub>RMS</sub>	280	420	V
Maximum DC Blocking Voltage	V <sub>DC</sub>	400	600	V
Maximum Average Forward Current Ta = 55 °C	I <sub>F(AV)</sub>	1.5		A
Maximum Peak Forward Surge Current ( 50 Hz, Half-cycle , Sine wave, Single Shot )	I <sub>FSM</sub>	30		A
Maximum Forward Voltage at I <sub>F</sub> = 1.5 A	V <sub>F</sub>	1.1		V
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	I <sub>R</sub>	10		μA
	I <sub>R(H)</sub>	350		μA
Maximum Reverse Recovery Time ( Note 1 )	T <sub>rr</sub>	0.4		μs
Junction Temperature Range	T <sub>J</sub>	- 40 to + 150		°C
Storage Temperature Range	T <sub>STG</sub>	- 40 to + 150		°C

## Notes :

( 1 ) Reverse Recovery Test Conditions : I<sub>F</sub> = 10 mA, I<sub>RP</sub> = 10 mA.

## RATING AND CHARACTERISTIC CURVES ( RU3AM - RU3M )

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

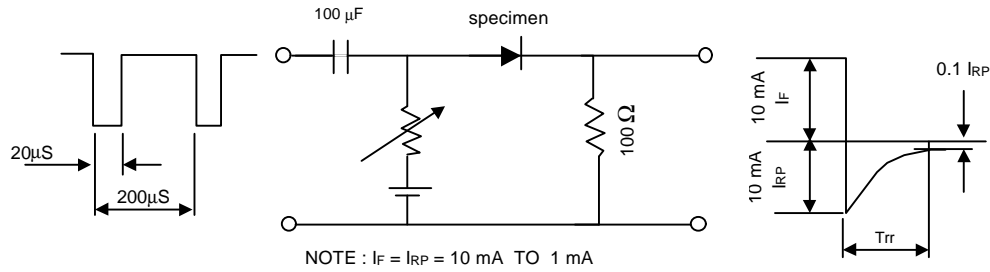


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

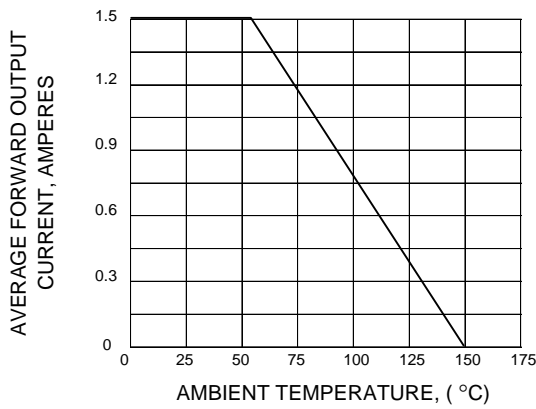


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

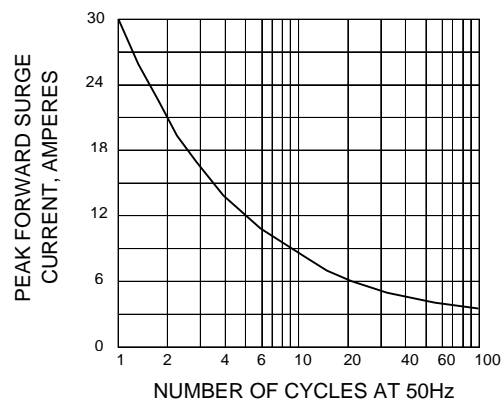


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

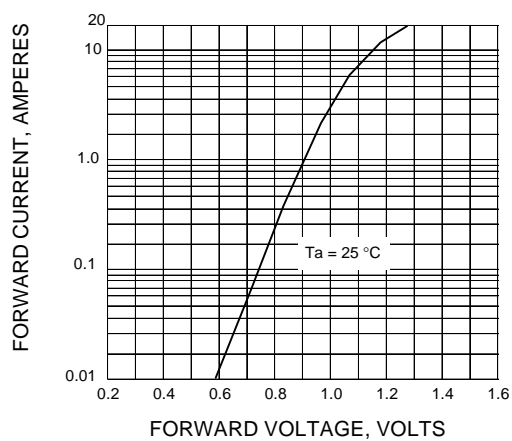


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

