

RU3 - RU3A

PRV : 400 - 600 Volts
Io : 1.5 Amperes

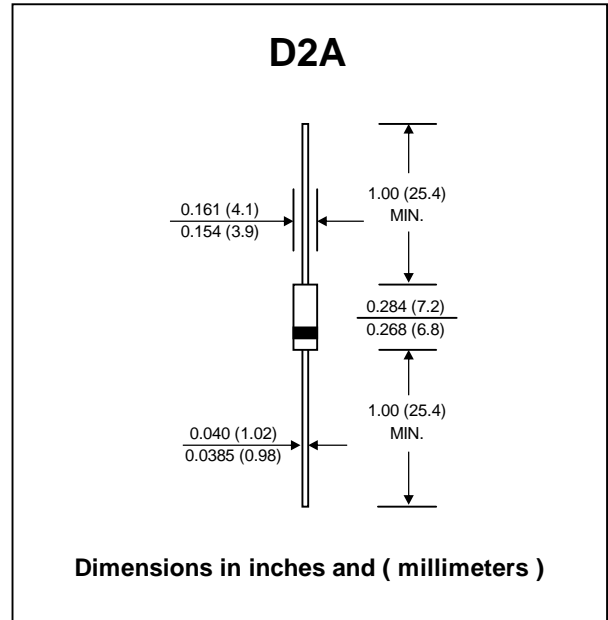
FEATURES :

- * 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-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 | 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

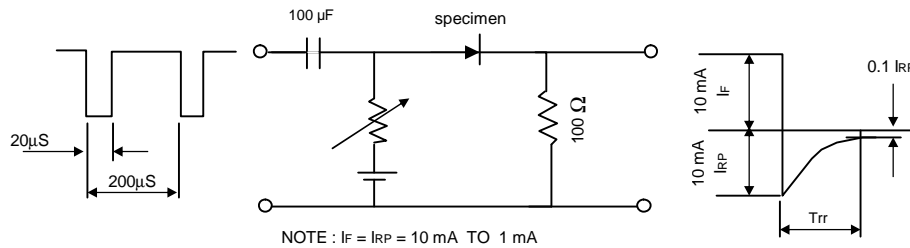


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

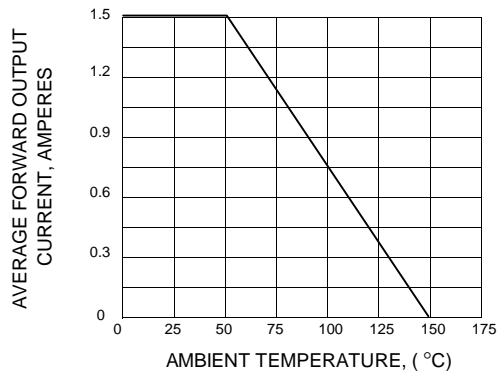


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

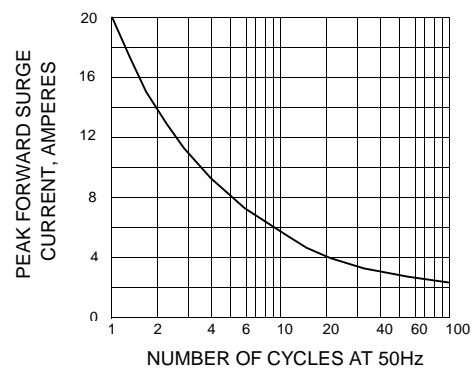


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

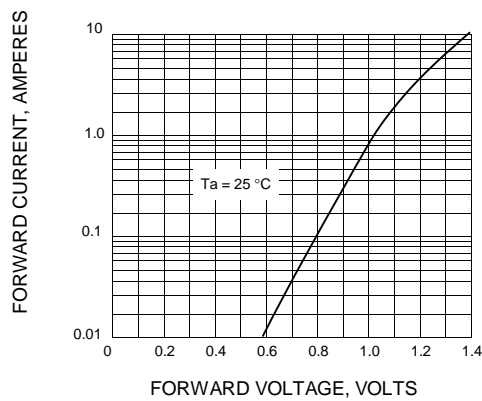


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

