

RU2 - RU2Z

PRV : 200 - 800 Volts
Io : 1.0 Ampere

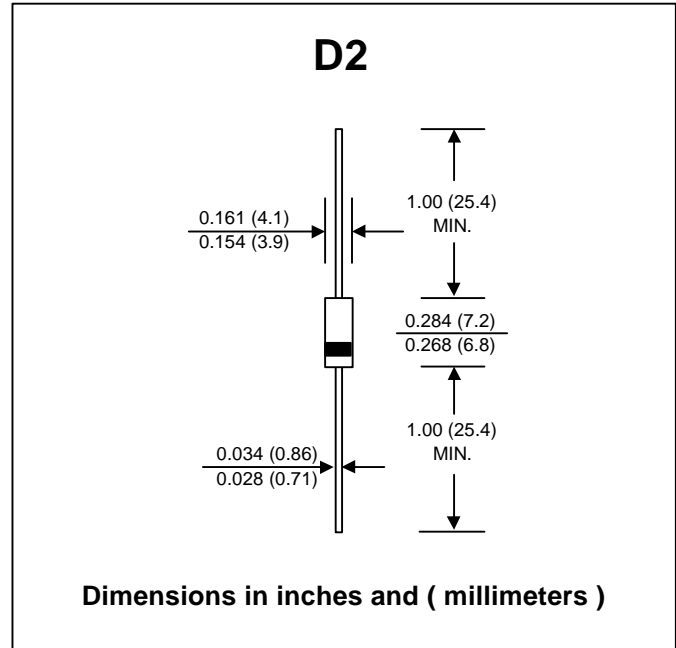
FEATURES :

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

MECHANICAL DATA :

- * Case : D2 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 : 0.465 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 | RU2Z | RU2 | RU2B | UNIT |
|---|--------|---------------|-----|------|------|
| Maximum Peak Reverse Voltage | VRM | 200 | 600 | 800 | V |
| Maximum Peak Reverse Surge Voltage | VRSM | 250 | 650 | 850 | V |
| Maximum Average Forward Current Ta = 50 °C | IF(AV) | 1.0 | | | A |
| Maximum Peak Forward Surge Current (50 Hz, Half-cycle, Sine wave, Single Shot) | IFSM | 20 | | | A |
| Maximum Forward Voltage at IF = 1 Amp. | VF | 1.5 | | | V |
| Maximum Reverse Current at VR = VRM Ta = 25 °C | IR | 10 | | | μA |
| Maximum Reverse Current at VR = VRM Ta = 100 °C | IR(H) | 300 | | | 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 |

Notes :

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

RATING AND CHARACTERISTIC CURVES (RU2 - RU2Z)

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

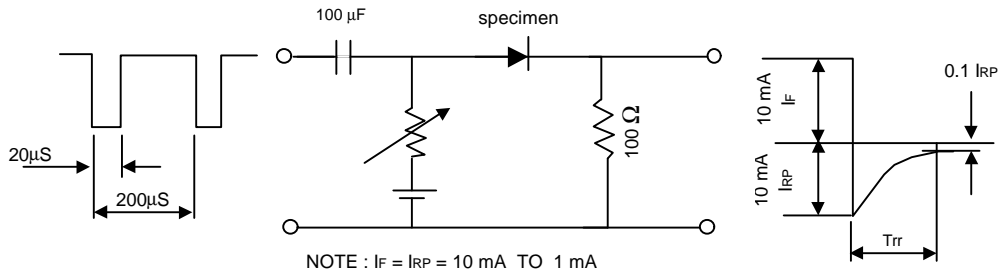


FIG.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

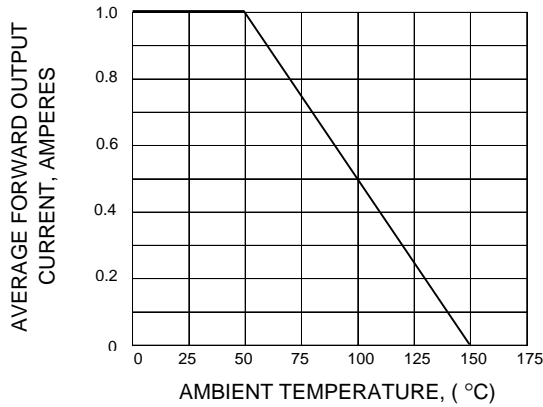


FIG.3 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

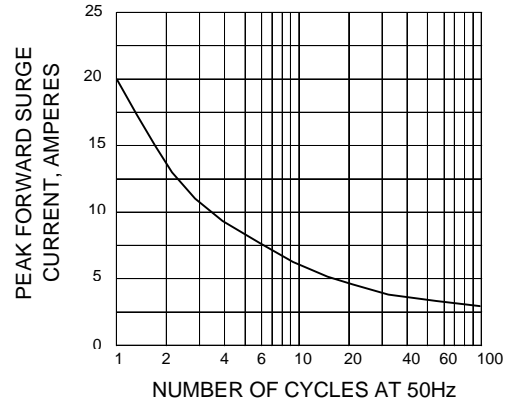


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

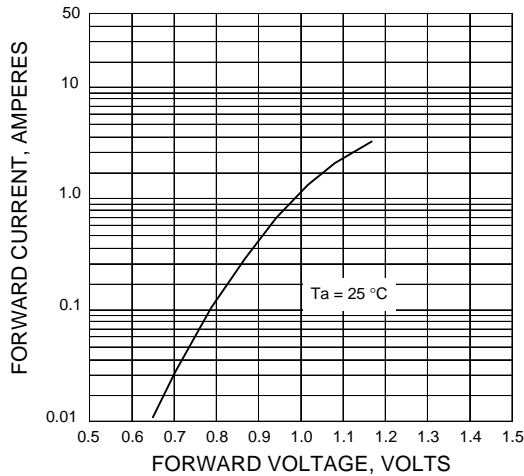


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

