



HVR230A

PRV : 3000 Volts
Io : 2.0 Amperes

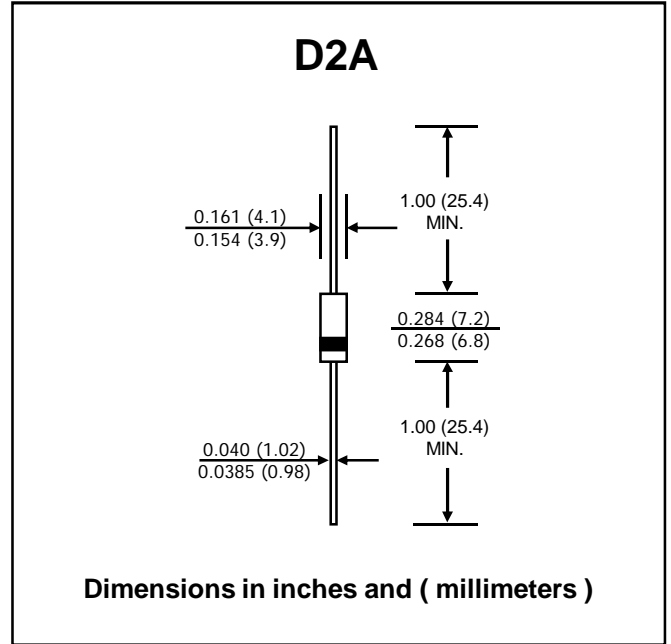
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * 100 % Reliability for 24 hours at 170 °C
- * Reverse bias for IR = 2mA , Pulse width = 30 sec.
- * **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

HIGH VOLTAGE AVALANCHED DIODE



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 | VALUE | UNIT |
|--|-----------|---------------|------|
| Maximum Peak Reverse Voltage | VRRM | 3000 | V |
| Minimum Avalanche Breakdown Voltage | VBR(min.) | 3600 | V |
| Maximum Average Forward Current Ta = 50°C | IF(AV) | 2.0 | A |
| Maximum Peak Forward Surge Current 8.3ms Single half sine wave Superimposed on rated load (JEDEC Method) | IFSM | 40 | A |
| Maximum Peak Forward Voltage at IF = 2.0 A | VF | 2.4 | V |
| Maximum Reverse Current at VRRM , Tj = 25 °C | IR | 2.0 | μA |
| Maximum Reverse Current at VRRM , Tj = 100 °C | IRM | 5.0 | μA |
| Junction Temperature Range | TJ | - 40 to + 150 | °C |
| Storage Temperature Range | TSTG | - 40 to + 150 | °C |

RATING AND CHARACTERISTIC CURVES (HVR230A)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

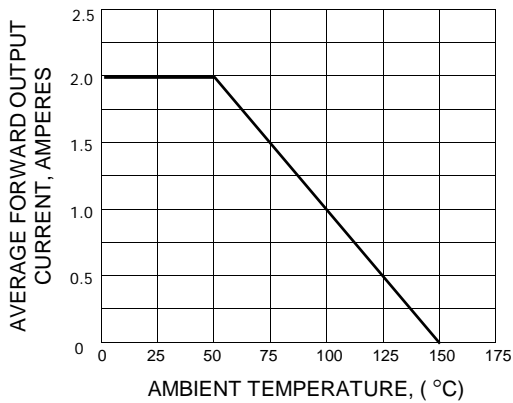


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

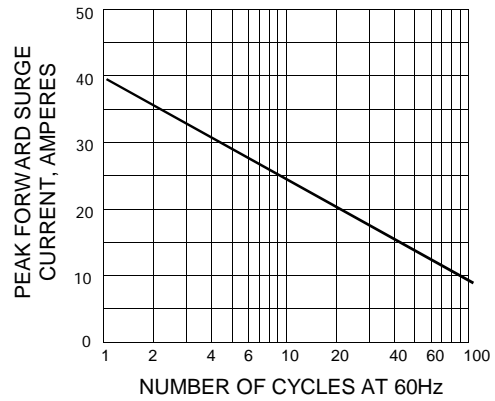


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

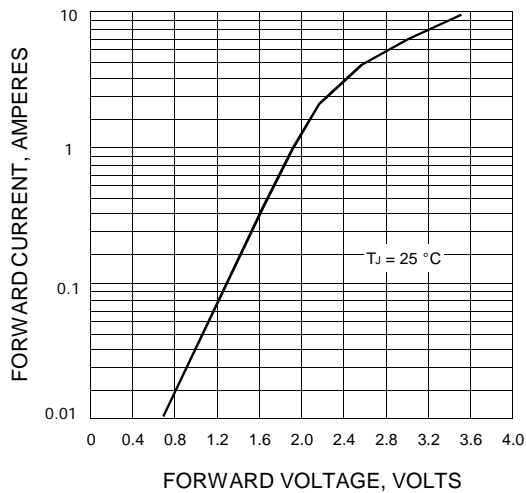


FIG.4 - TYPICAL REVERSE CHARACTERISTICS

