

CN8A - CN8M

PRV : 50 - 1000 Volts
Io : 8.0 Amperes

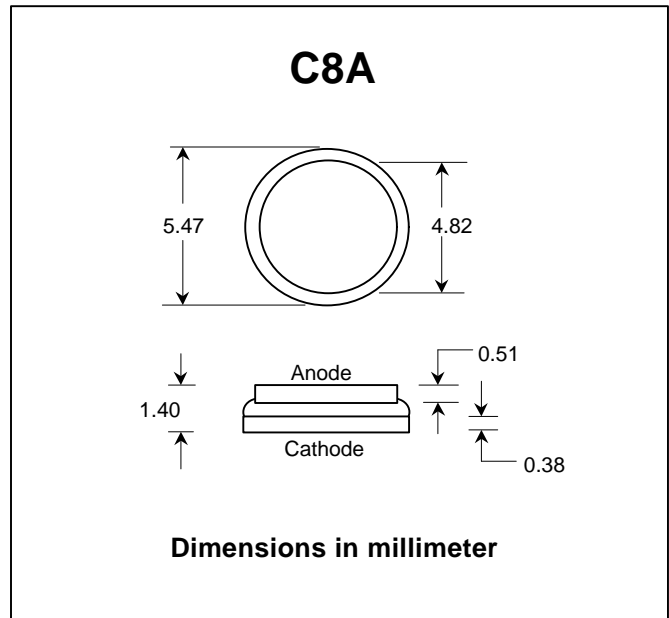
FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Chip form
- * Pb / RoHS Free

MECHANICAL DATA :

- * Case : C8A
- * Terminals : Solderable per MIL-STD-202, Method 208 guaranteed
- * Polarity : Cathode to bigger size slug, For Anode to bigger size slug use "R" suffix.
- * Mounting position : Any
- * Weight : 0.25 gram

CELL 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 | CN8A | CN8B | CN8D | CN8G | CN8J | CN8K | CN8M | UNIT |
|---|-----------------|---------------|------|------|------|------|------|------|--------------|
| Maximum Repetitive Peak Reverse Voltage | V_{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V_{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V_{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Current $T_c = 75^\circ C$ | $I_{F(AV)}$ | 8.0 | | | | | | | A |
| Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method) | I_{FSM} | 300 | | | | | | | A |
| Maximum Forward Voltage at $I_f = 8$ Amps. | V_F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current $T_a = 25^\circ C$ at rated DC Blocking Voltage $T_a = 100^\circ C$ | I_R | 5.0 | | | | | | | μA |
| | $I_{R(H)}$ | 1.0 | | | | | | | mA |
| Typical Junction Capacitance (Note 1) | C_J | 300 | | | | | | | pF |
| Thermal Resistance, Junction to Case | $R_{\theta JC}$ | 10 | | | | | | | $^\circ C/W$ |
| Junction Temperature Range | T_J | - 65 to + 175 | | | | | | | $^\circ C$ |
| Storage Temperature Range | T_{STG} | - 65 to + 175 | | | | | | | $^\circ C$ |

Note : (1) Measured at 1.0 MHz and applied reverse Voltage of 4.0 Vdc

RATING AND CHARACTERISTIC CURVES (CN8A - CN8M)

