

CN3A - CN3M

CELL RECTIFIER DIODES

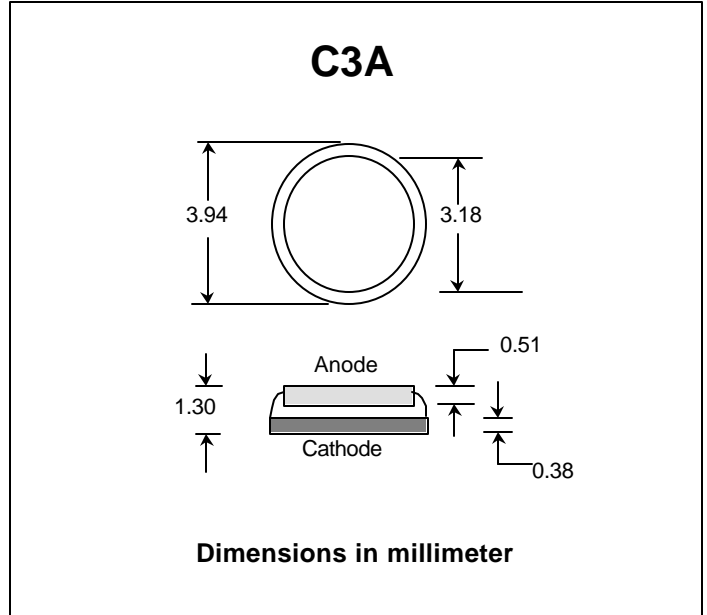
PRV : 50 - 1000 Volts
I_o : 3.0 Amperes

FEATURES :

- * High current capability
- * High surge current capability
- * High reliability
- * Low reverse current
- * Low forward voltage drop
- * Chip form

MECHANICAL DATA :

- * Case : C3A
- * 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 : 0.11 gram



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 | CN3A | CN3B | CN3D | CN3G | CN3J | CN3K | CN3M | UNIT |
|--|--------------------|---------------|------|------|------|------|------|------|-------|
| Maximum Repetitive Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | Volts |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | Volts |
| Maximum Average Forward Current T _c = 75°C | I _{F(AV)} | 3.0 | | | | | | | Amps. |
| Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method) | I _{FSM} | 200 | | | | | | | Amps. |
| Maximum Forward Voltage at I _F = 3 Amps. | V _F | 1.1 | | | | | | | Volts |
| Maximum DC Reverse Current Ta = 25 °C at rated DC Blocking Voltage Ta = 100 °C | I _R | 5.0 | | | | | | | µA |
| | I _{R(H)} | 1.0 | | | | | | | mA |
| Typical Junction Capacitance (Note 1) | C _J | 28 | | | | | | | pF |
| Thermal Resistance, Junction to Case | R _{θJC} | 15 | | | | | | | °C/W |
| Junction Temperature Range | T _J | - 65 to + 175 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | - 65 to + 175 | | | | | | | °C |

Note : (1) Measured at 1.0 MHz and applied reverse Voltage of 4.0 V_{DC}



Certificate Number: QM561

Certificate Number: E17276

RATING AND CHARACTERISTIC CURVES (CN3A - CN3M)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

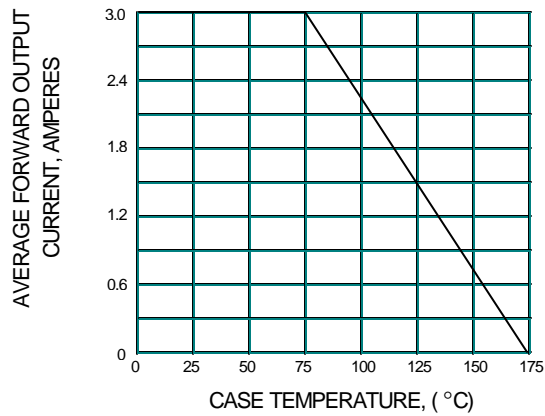


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

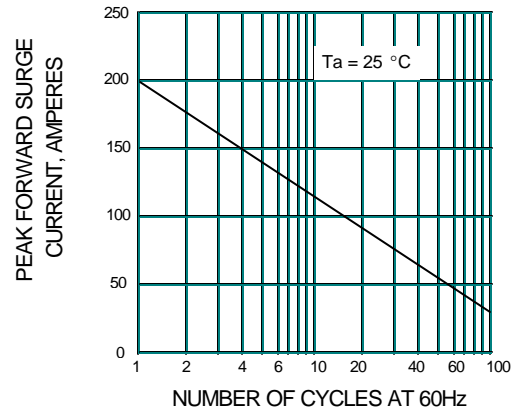


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

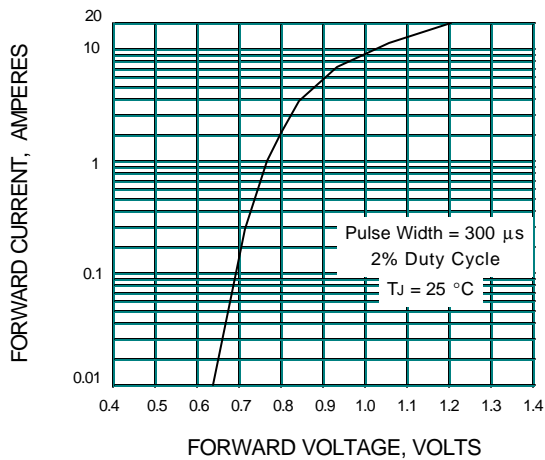


FIG.4 - TYPICAL JUNCTION CAPACITANCE

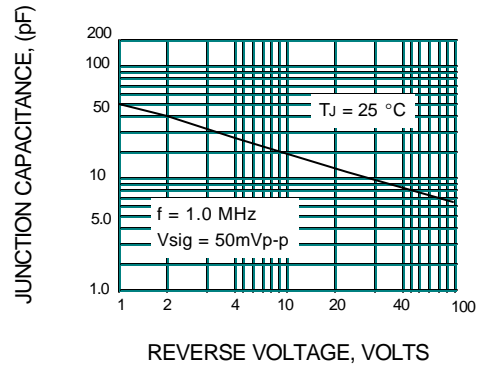


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

