

CN3A - CN3M

PRV : 50 - 1000 Volts

Io : 3.0 Amperes

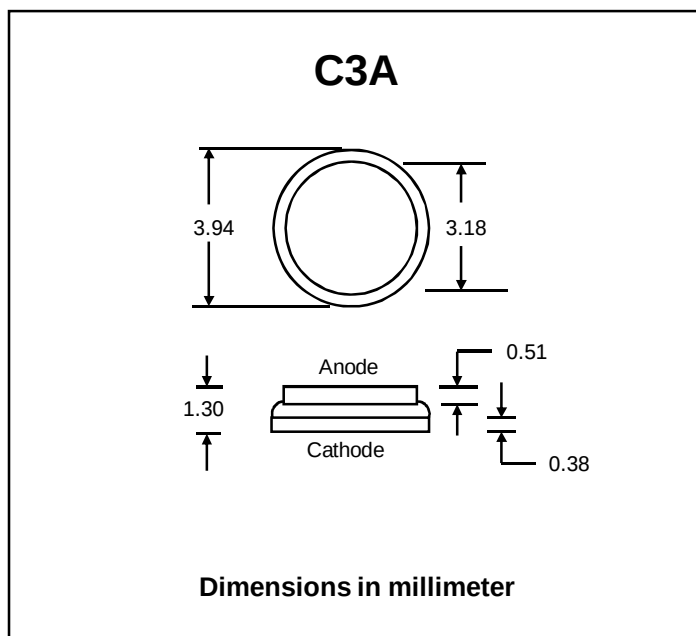
FEATURES :

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

MECHANICAL DATA :

- * Case : 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

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	CN3A	CN3B	CN3D	CN3G	CN3J	CN3K	CN3M	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°C	I _{F(AV)}	3.0							A
Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	I _{FSM}	100							A
Maximum Forward Voltage at I _F = 3 Amps.	V _F	1.1							V
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}

RATING AND CHARACTERISTIC CURVES (CN3A - CN3M)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

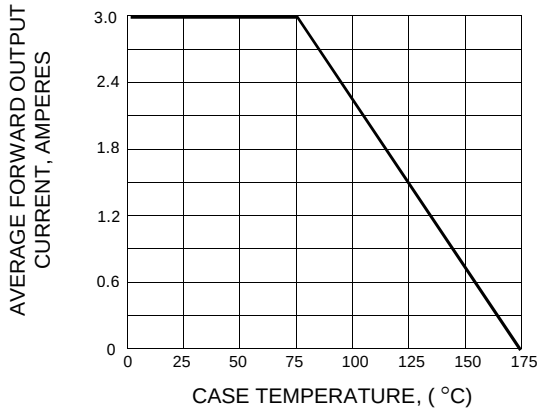


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

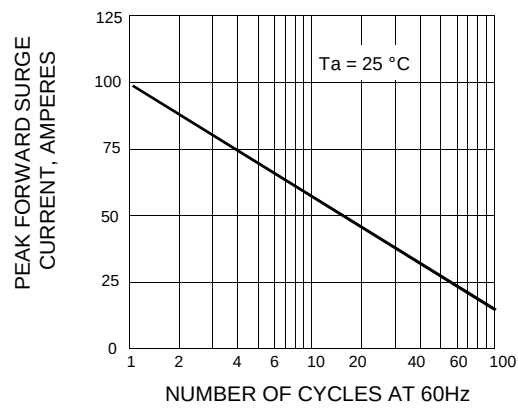


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

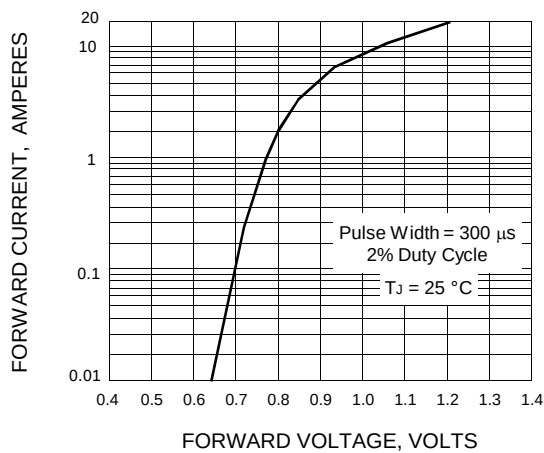


FIG.4 - TYPICAL JUNCTION CAPACITANCE

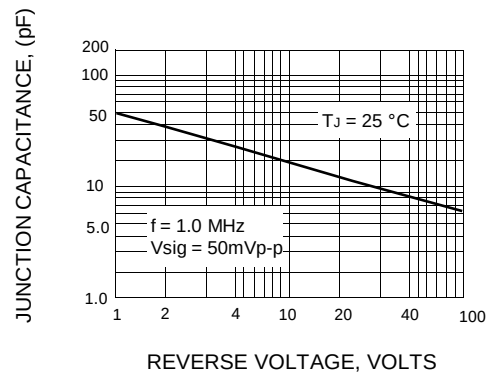


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

