

CN5R

PRV : 2000 Volts
Io : 5.0 Amperes

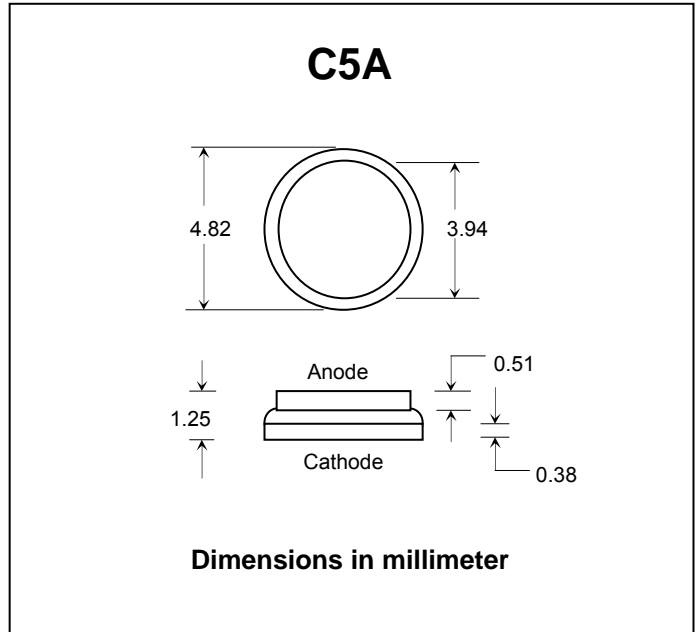
FEATURES :

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

MECHANICAL DATA :

- * Case : C5A
- * 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 : 0.15 gram

HIGH VOLTAGE RECTIFIER



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 Repetitive Peak Reverse Voltage	V_{RRM}	2000	V
Maximum RMS Voltage	V_{RMS}	1400	V
Maximum DC Blocking Voltage	V_{DC}	2000	V
Maximum Average Forward Current $T_c = 75\text{ }^\circ\text{C}$	$I_{F(AV)}$	5.0	A
Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	200	A
Maximum Forward Voltage at $I_F = 5\text{ Amps}$.	V_F	1.2	V
Maximum DC Reverse Current $T_a = 25\text{ }^\circ\text{C}$ at rated DC Blocking Voltage $T_a = 100\text{ }^\circ\text{C}$	I_R	10	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	$^\circ\text{C/W}$
Junction Temperature Range	T_J	- 65 to + 175	$^\circ\text{C}$
Storage Temperature Range	T_{STG}	- 65 to + 175	$^\circ\text{C}$

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

RATING AND CHARACTERISTIC CURVES (CN5R)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

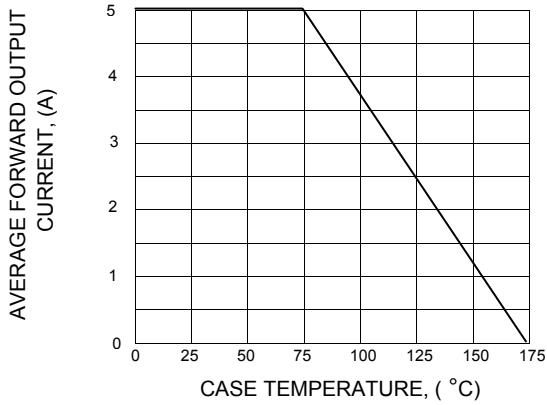


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

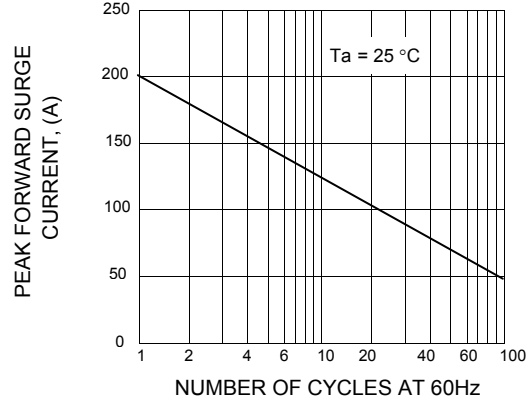


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

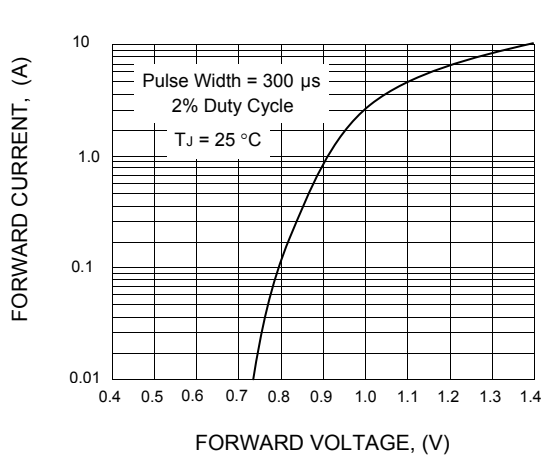


FIG.4 - TYPICAL JUNCTION CAPACITANCE

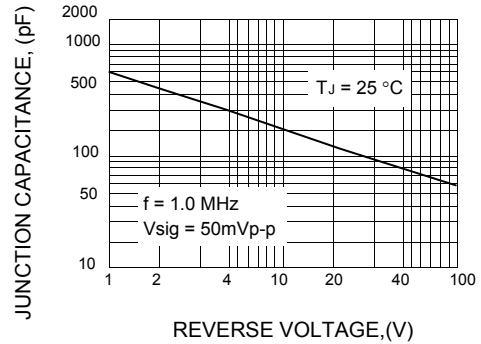


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

