

CN25A - CN25M

PRV : 50 - 1000 Volts
Io : 25 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 : C25A
- * 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 : 0.26 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25 °C ambient temperature unless otherwise specified.

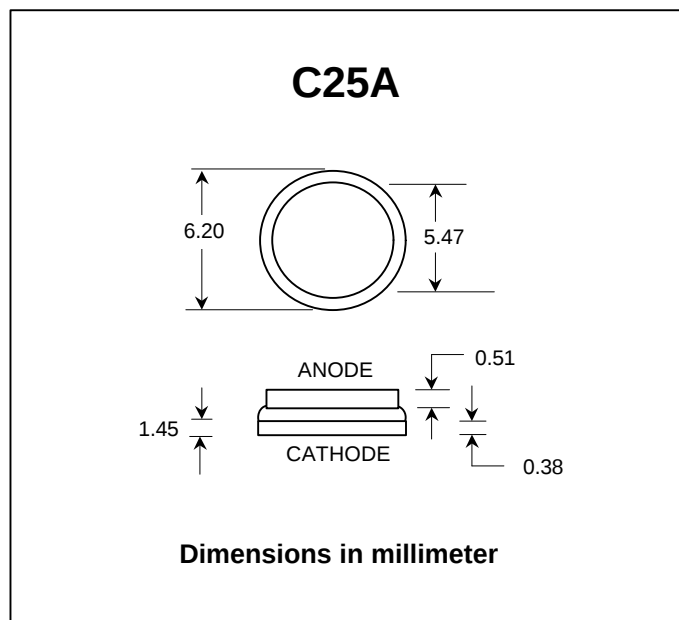
Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

RATING	SYMBOL	CN25A	CN25B	CN25D	CN25G	CN25J	CN25K	CN25M	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 $T_c = 75^{\circ}C$	$I_{F(AV)}$	25							A
Peak Forward Surge Current Single half sine wave superimposed on rated load (JEDEC Method)	I_{FSM}	400							A
Maximum Forward Voltage at $I_F = 25$ 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

CELL RECTIFIER DIODES



RATING AND CHARACTERISTIC CURVES (CN25A - CN25M)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

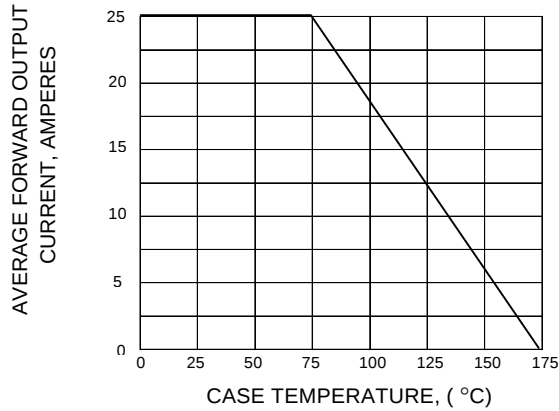


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

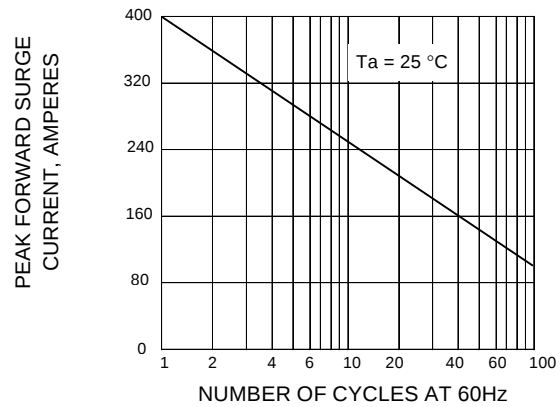


FIG.3 - TYPICAL FORWARD CHARACTERISTICS

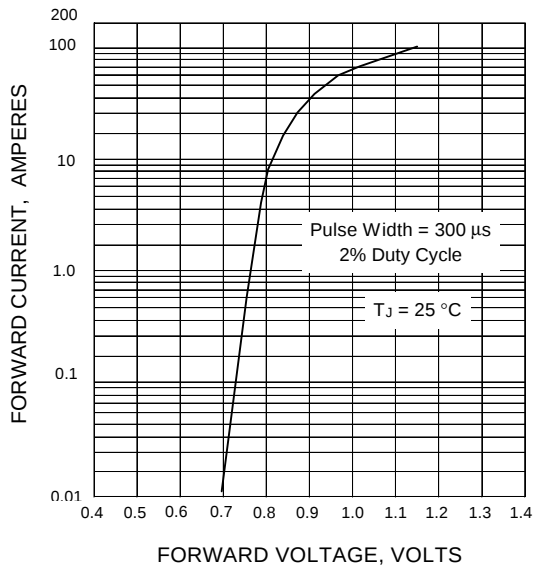


FIG.4 - TYPICAL JUNCTION CAPACITANCE

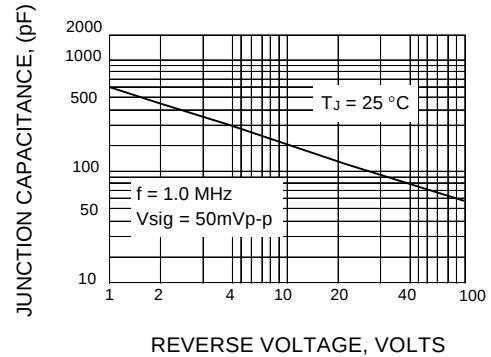


FIG.5 - TYPICAL REVERSE CHARACTERISTICS

