

CT1500R - CT1510R

PRV : 50 - 1000 Volts

Io : 30 Amperes

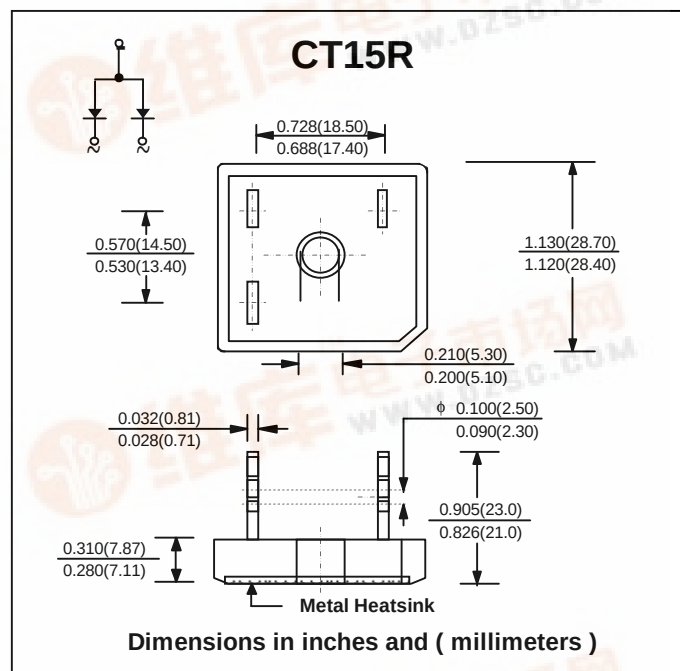
FEATURES :

- * High case dielectric strength
- * High surge current capability
- * High reliability
- * High efficiency
- * Low reverse current
- * Low forward voltage drop
- * **Pb / RoHS Free**

MECHANICAL DATA :

- * Case : Molded plastic with heatsink integrally mounted in the bridge encapsulation
- * Epoxy : UL94V-O rate flame retardant
- * Terminals : plated .25" (6.35 mm). Faston
- * Polarity : Polarity symbols marked on case
- * Mounting position : Bolt down on heat-sink with silicone thermal compound between bridge and mounting surface for maximum heat transfer efficiency.
- * Weight : 16 grams

CENTER TAP 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%.

TYPE NUMBER	SYMBOL	CT 1500R	CT 1501R	CT 1502R	CT 1504R	CT 1506R	CT 1508R	CT 1510R	UNITS
Maximum Recurrent 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 = 55 °C	I _O	30							Amps.
Peak Forward Surge Current Single half sine wave Superimposed on rated load (JEDEC Method)	I _{FSM}	400							Amps.
Current Squared Time at t < 8.3 ms.	I ² t	660							A ² S
Maximum Forward Voltage per Diode at I _F =15 Amps.	V _F	1.1							Volts
Maximum DC Reverse Current Ta = 25 °C at Rated DC Blocking Voltage Ta = 100 °C	I _R	10							μA
	I _{R(H)}	200							μA
Typical Thermal Resistance (Note 1)	R _{θJC}	1.4							°C/W
Operating Junction Temperature Range	T _J	- 40 to + 150							°C
Storage Temperature Range	T _{STG}	- 40 to + 150							°C

Notes :

- 1) Thermal resistance from Junction to Case with units mounted on a 9"x3.5"x4.6" (22.9x8.9x11.7 cm) Al-Finned Heatsink.

RATING AND CHARACTERISTIC CURVES (CT1500R - CT1510R)

FIG.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

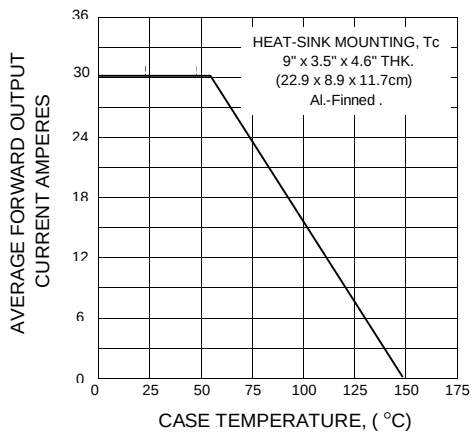


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

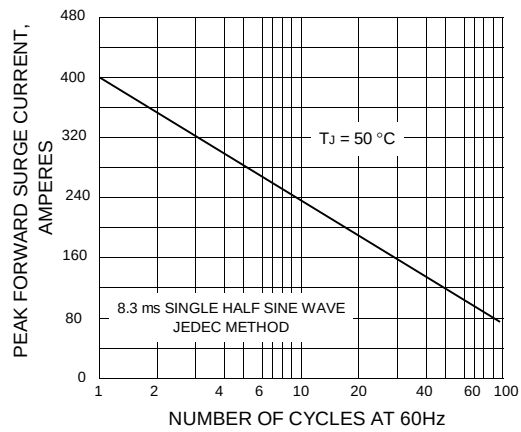


FIG.3 - TYPICAL FORWARD CHARACTERISTICS PER DIODE

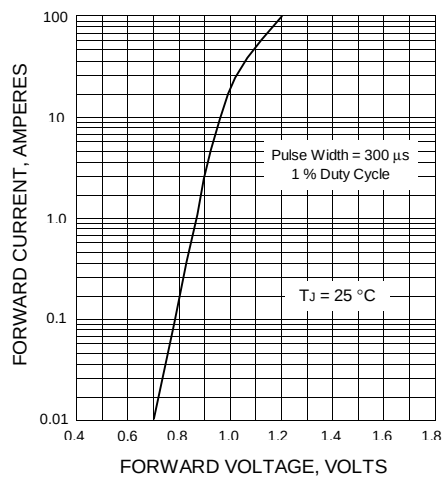


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER DIODE

