Thyristors
T370

USHA (INDIA) LTD

Technical Data

Typical applications : D.C. Motor control, Controlled rectifiers, A.C. Controllers

Type No.	V_{RRM} (Volts)	V_{RSM} (Volts)
T370/14	1400	1500
T370/16	1600	1700
T370/18	1800	1900
T370/22	2200	2300
T370/26	2600	2700
T370/29	2900	3000

* Low Voltage on request

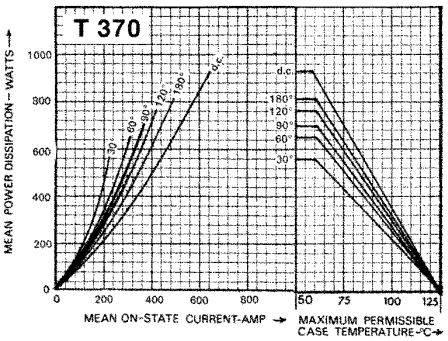
Features

- Ceramic Header
- Voltage grade upto 2900V
- Weight 550 gm (Approx)

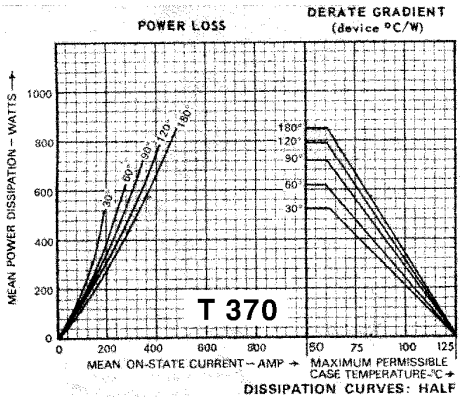
Symbol	Conditions	Values
$I_{T(AV)}$	Half wave resistive load; Tcase = 82 °C	370 A
I_{TSM}	Tvj = 125 °C; 10 ms half sine, V_{R} = 50% V_{RRM}	9000 A
I^2t	Tvj = 125 °C; 10 ms half sine	405000 A^2s
	Tvj = 125 °C; 3 ms half sine	315000 A^2s
I_{GT}	Tvj = 25 °C; V_{DRM} = 5V	150 mA
V_{GT}	Tvj = 25 °C; V_{DRM} = 5V	3.5 V
dv/dt	Tvj = 125 °C ; Voltage = 67 % V_{DRM}	*300 V/µs
$[di/dt]_{CR}$	Repetitive 50 Hz	100 A/µs
V_T	Tvj = 25 °C ; I_T = 1600A	2.0 V max
I_{RRM}/I_{DRM}	Tvj = 125 °C	50 mA
I_H	Typ. value.	80 mA
I_L	Typ. value.	100 mA
$R_{th(j-h)}$	dc	0.070 °C/W
	Half wave	0.073 °C/W
	3-Phase	0.084 °C/W
T_{vj}		+ 125 °C
T_{stg}		-40.....+ 125 °C
Mounting torque		15 Nm per Bolt
Case outline		S

* Higher dv/dt selection available on request

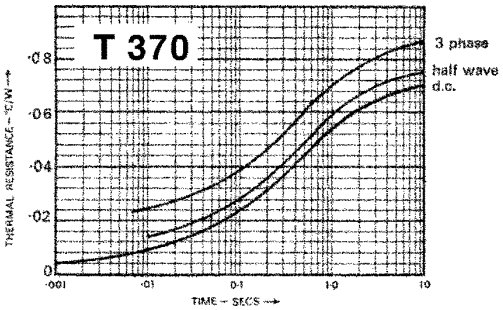
ISO 14001 CERTIFIED
AN ISO 9002 COMPANY



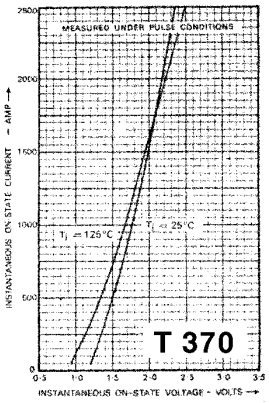
DISSIPATION CURVES: RECTANGULAR WAVEFORM



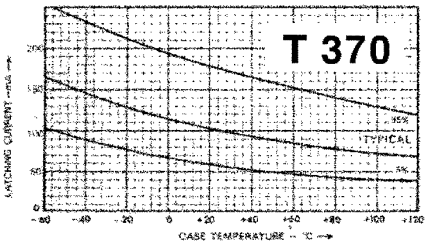
DISSIPATION CURVES: HALF WAVE



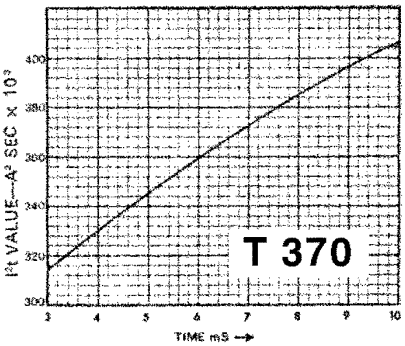
MAXIMUM (LIMIT) TRANSIENT THERMAL RESISTANCE



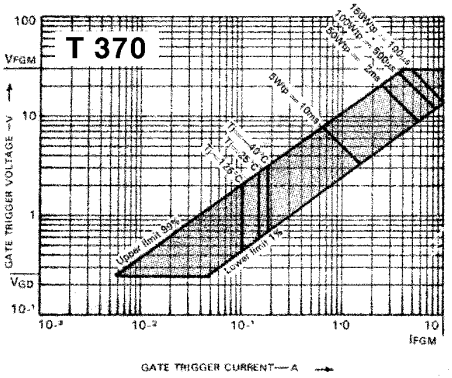
MAXIMUM (LIMIT) ON-STATE CHARACTERISTICS



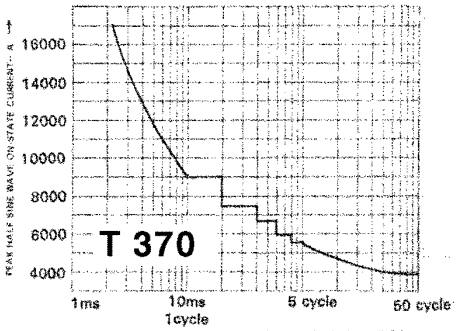
LATCHING CURRENT VERSUS CASE TEMPERATURE



I²t VERSUS TIME AT 125°C



GATE CHARACTERISTICS

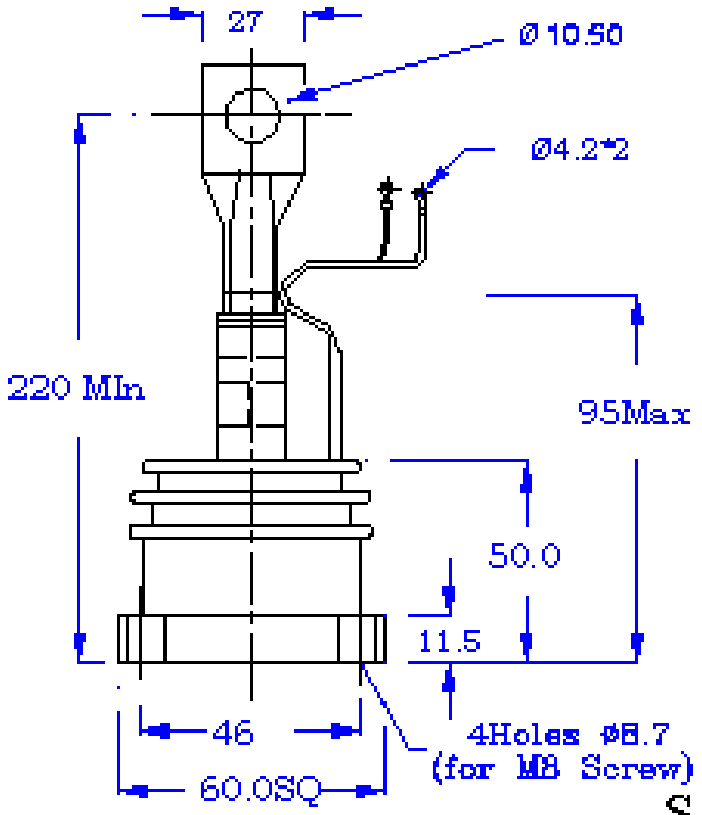


SURGE (NON-REPETITIVE) ON-STATE CURRENT VERSUS TIME (with 50% VRRM. Tcase 125°C)

PACAKAGE DEATILS

DO NOT SCALE

All Dimensions in mm



Mounting Torque 15Nm/Bolt