Thyristors
T30

USHA (INDIA) LTD

Technical Data

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

Type No.	V_{RRM} (Volts)	V_{RSM} (Volts)
T30/04	400	500
T30/06	600	700
T30/08	800	900
T30/10	1000	1100
T30/12	1200	1300
T30/14	1400	1500
T30/16	1600	1700

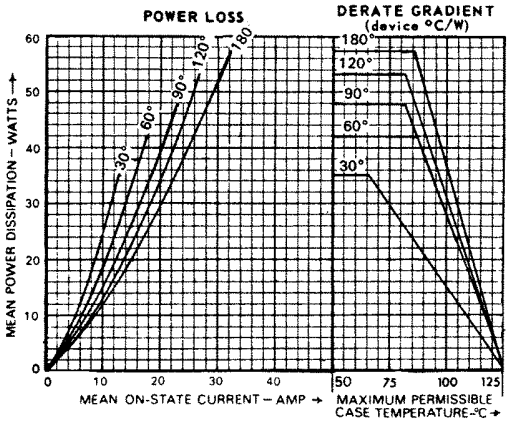
Features

- Hermetic glass to metal seal
- Voltage grade upto 1600V
- Weight 15 gm (Approx)

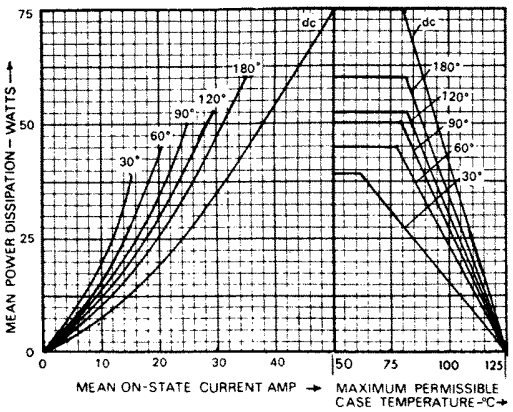
Symbol	Conditions	Values
$I_{T(AV)}$	Half wave resistive load;Tcase = 85 ˚C	30 A
I_{TSM}	Tvj = 125 ˚C;10 ms half sine,V_R = 50% V_{RRM}	500 A
I^2t	Tvj = 125 ˚C;10 ms half sine	1250 A^2s
	Tvj = 125 ˚C; 3 ms half sine	1000 A^2s
I_{GT}	Tvj = 25 ˚C;V_{DRM} = 5V	100 mA
V_{GT}	Tvj = 25 ˚C;V_{DRM} = 5V	3.0 V
dv/dt	Tvj = 125 ˚C ;Voltage = 67 % V_{DRM}	*200 V/µs
$[di/dt]_{CR}$	Repetitive 50 Hz	150 A/µs
V_T	Tvj = 25 ˚C ; I_T = 100A	1.80 V max
I_{RRM}/I_{DRM}	Tvj = 125 ˚C	5.0 mA
I_L	Max value.	300 mA
$R_{th(j-h)}$	dc	0.6 ˚C/W
	Half wave	0.7 ˚C/W
	3-Phase	0.8 ˚C/W
T_{vj}		+ 125 ˚C
T_{stg}		-40.....+ 125 ˚C
Mounting torque		2.5 Nm
Case outline		N

* Higher dv/dt selection available on request

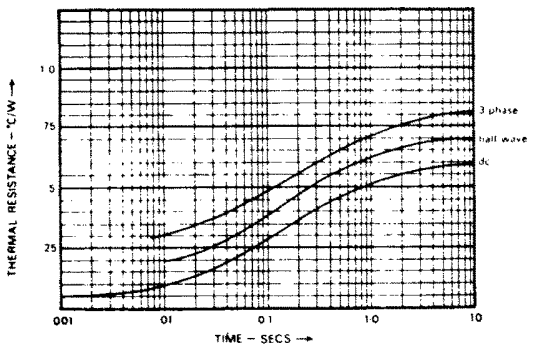
ISO 14001 CERTIFIED
AN ISO 9002 COMPANY



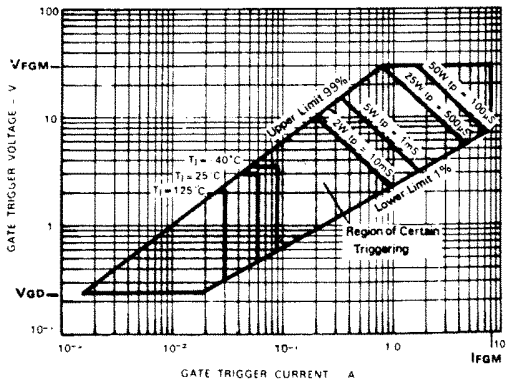
DISSIPATION CURVES: HALF WAVE



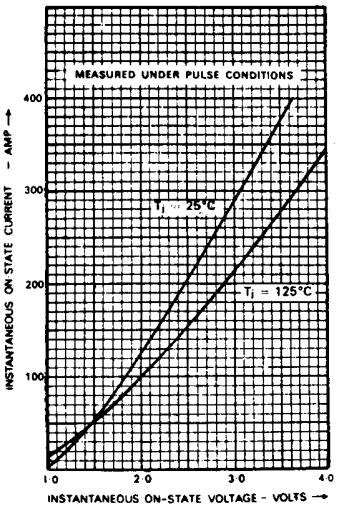
DISSIPATION CURVES: RECTANGULAR WAVEFORM



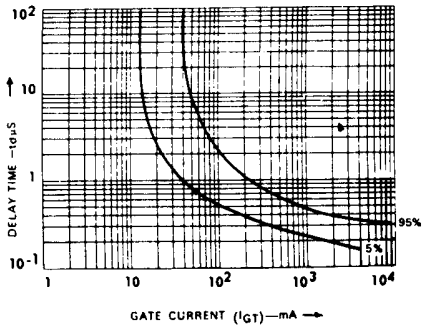
MAXIMUM (LIMIT) TRANSIENT THERMAL RESISTANCE



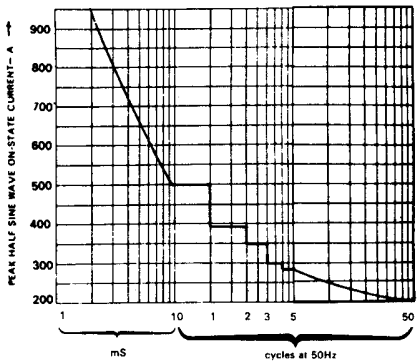
GATE CHARACTERISTICS



MAXIMUM (LIMIT) ON-STATE CHARACTERISTICS



DELAY TIME versus GATE CURRENT

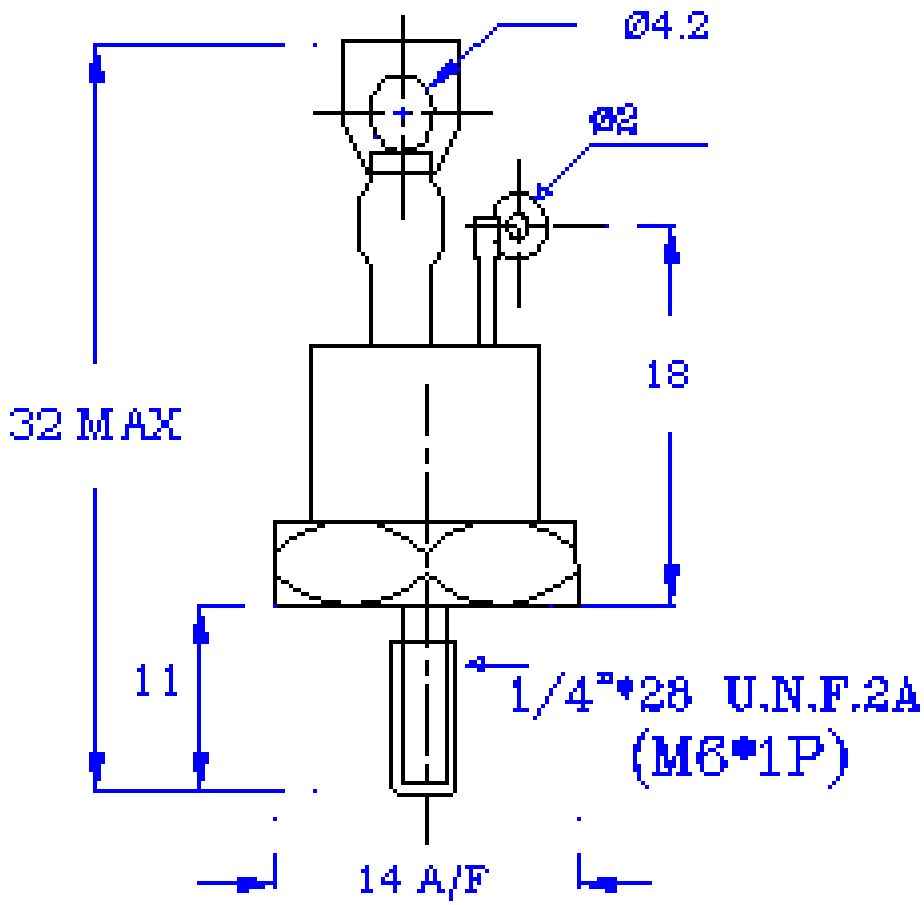


DURATION
SURGE (NON-REPETITIVE) ON-STATE CURRENT VERSUS TIME
(With 100% V_{RRM} T_{case} = 125°C

PACAKAGE DEATILS

DO NOT SCALE

All Dimensions in mm



Alt : Also available with pigtail

Mounting Torque: 2.5Nm N