

# Thyristors

## T50



### Technical Data

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

Type No.	$V_{RRM}$ (Volts)	$V_{RSM}$ (Volts)
T50/04	400	500
T50/06	600	700
T50/08	800	900
T50/10	1000	1100
T50/12	1200	1300
T50/14	1400	1500
T50/16	1600	1700

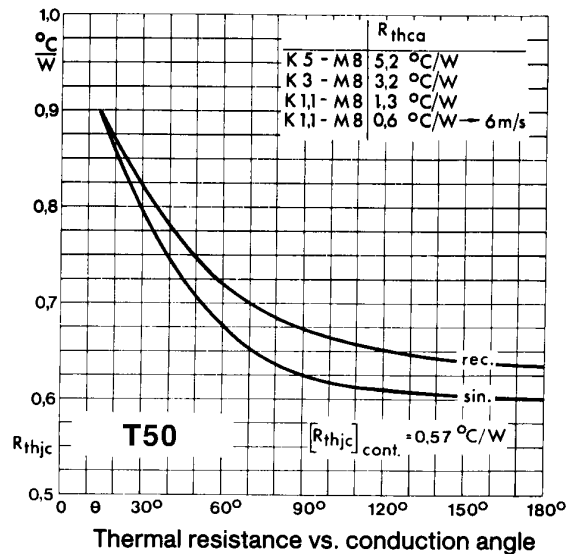
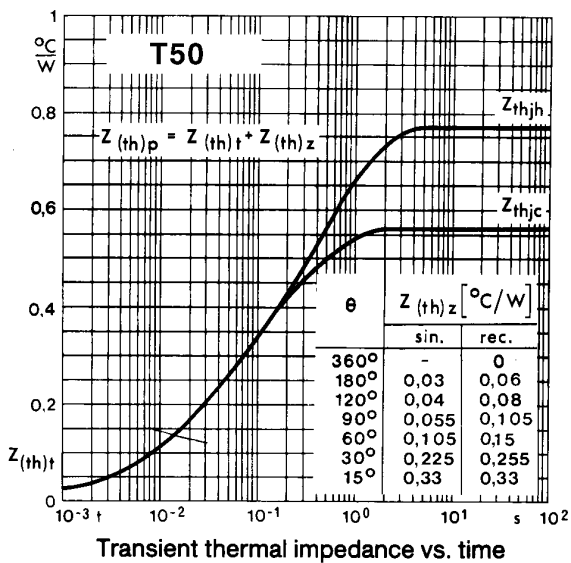
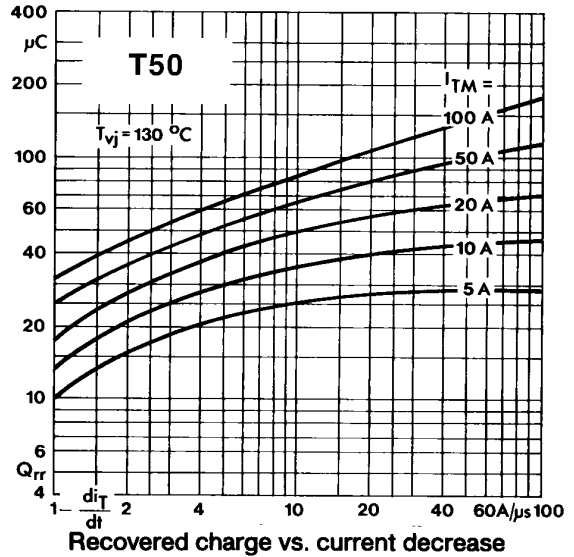
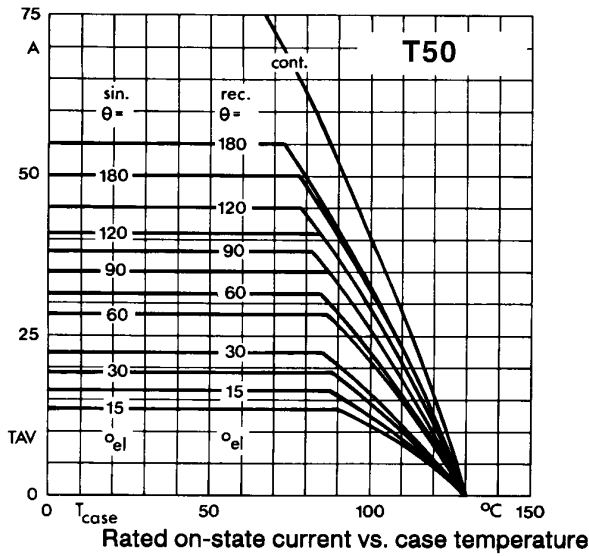
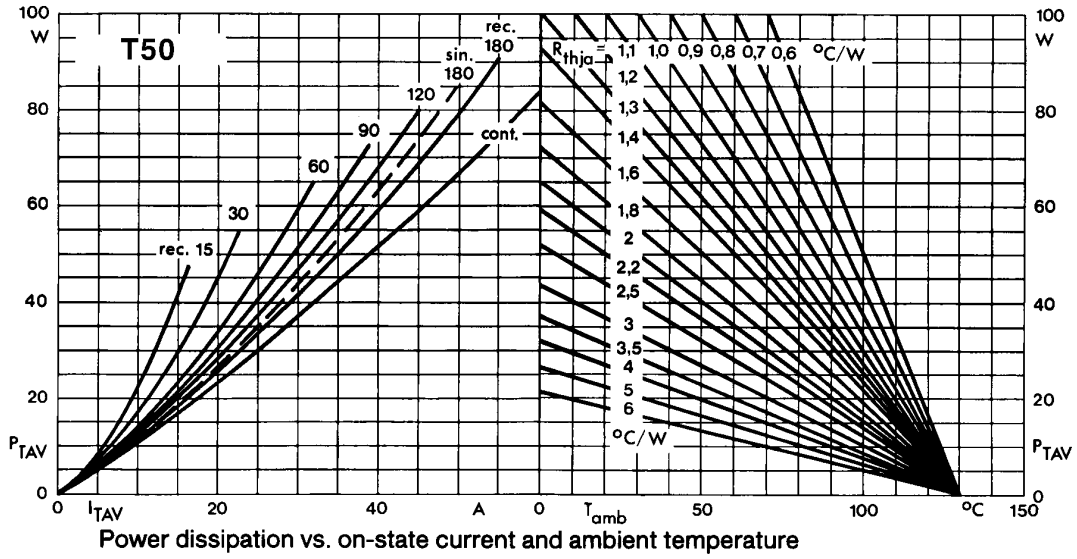
### Features

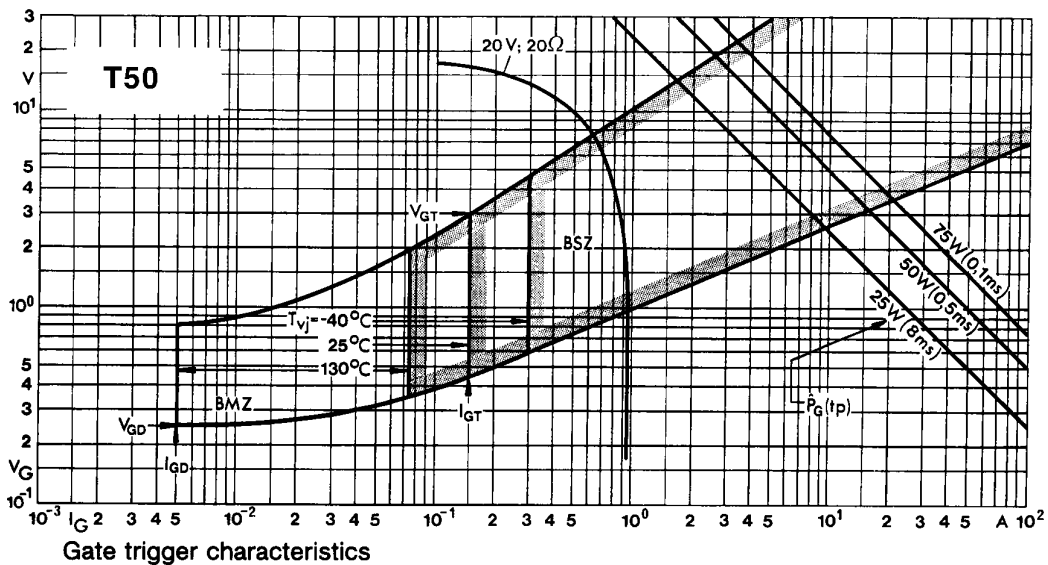
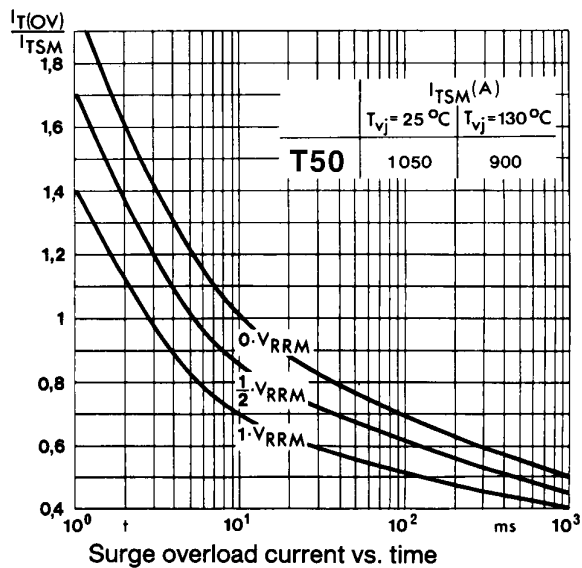
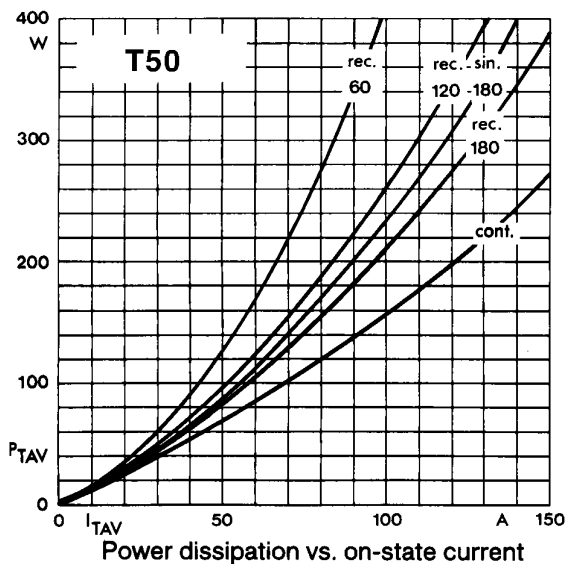
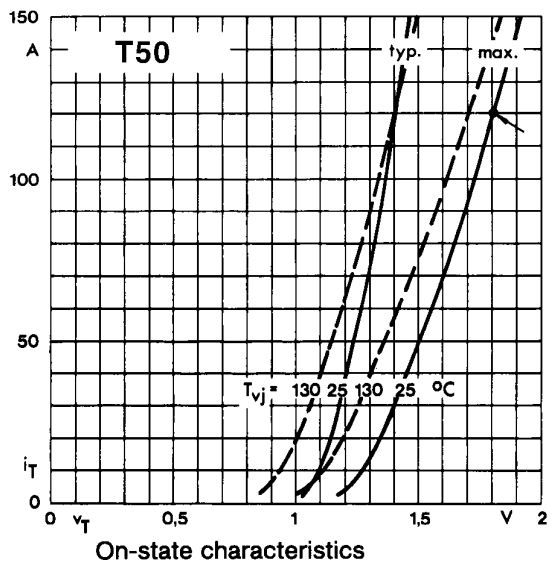
- Hermetic glass to metal seal
- Voltage grade upto 1600V
- Weight 22 gm ( Approx )

Symbol	Conditions	Values
$I_{T(AV)}$	Sin 180 ; $T_{case} = 85\text{ }^{\circ}\text{C}$	50 A
$I_{TSM}$	$T_{vj} = 25\text{ }^{\circ}\text{C}$	1050 A
	$T_{vj} = 130\text{ }^{\circ}\text{C}$	900 A
$I^2t$	$T_{vj} = 25\text{ }^{\circ}\text{C}$	5000 A <sup>2</sup> s
	$T_{vj} = 130\text{ }^{\circ}\text{C}$	4000 A <sup>2</sup> s
$I_{GT}$ $V_{GT}$ $dv/dt$ $[di/dt]_{CR}$	$T_{vj} = 25\text{ }^{\circ}\text{C}; V_{DRM} = 5V$	150 mA
	$T_{vj} = 25\text{ }^{\circ}\text{C}; V_{DRM} = 5V$	3V
	$T_{vj} = 130\text{ }^{\circ}\text{C}; \text{Voltage} = 67\% V_{DRM}$	*200 V/ $\mu$ s 50 A/ $\mu$ s
$V_T$ $V_0$ $R_0$ $I_{RRM}/I_{DRM}$	$T_{vj} = 25\text{ }^{\circ}\text{C}; I_T = 120A$	1.80 V max
	$T_{vj} = 130\text{ }^{\circ}\text{C}$	1.10 V
	$T_{vj} = 130\text{ }^{\circ}\text{C}$	5 m
	$T_{vj} = 130\text{ }^{\circ}\text{C}$	8 mA
$I_H$ $I_L$		Typ 100 mA; max. 200 mA Typ 250 mA; max. 400 mA
$R_{th(j-c)}$  $R_{th(c-h)}$ $T_{vj}$ $T_{stg}$	Cont.	0.57 $^{\circ}\text{C}/\text{W}$
	Sin 180 / rec. 120	0.60 / 0.65 $^{\circ}\text{C}/\text{W}$
		0.20 $^{\circ}\text{C}/\text{W}$
		+ 130 $^{\circ}\text{C}$
		-40.....+ 150 $^{\circ}\text{C}$
Mounting torque		4 Nm
Case outline		L

\* Higher dv/dt selection available on request



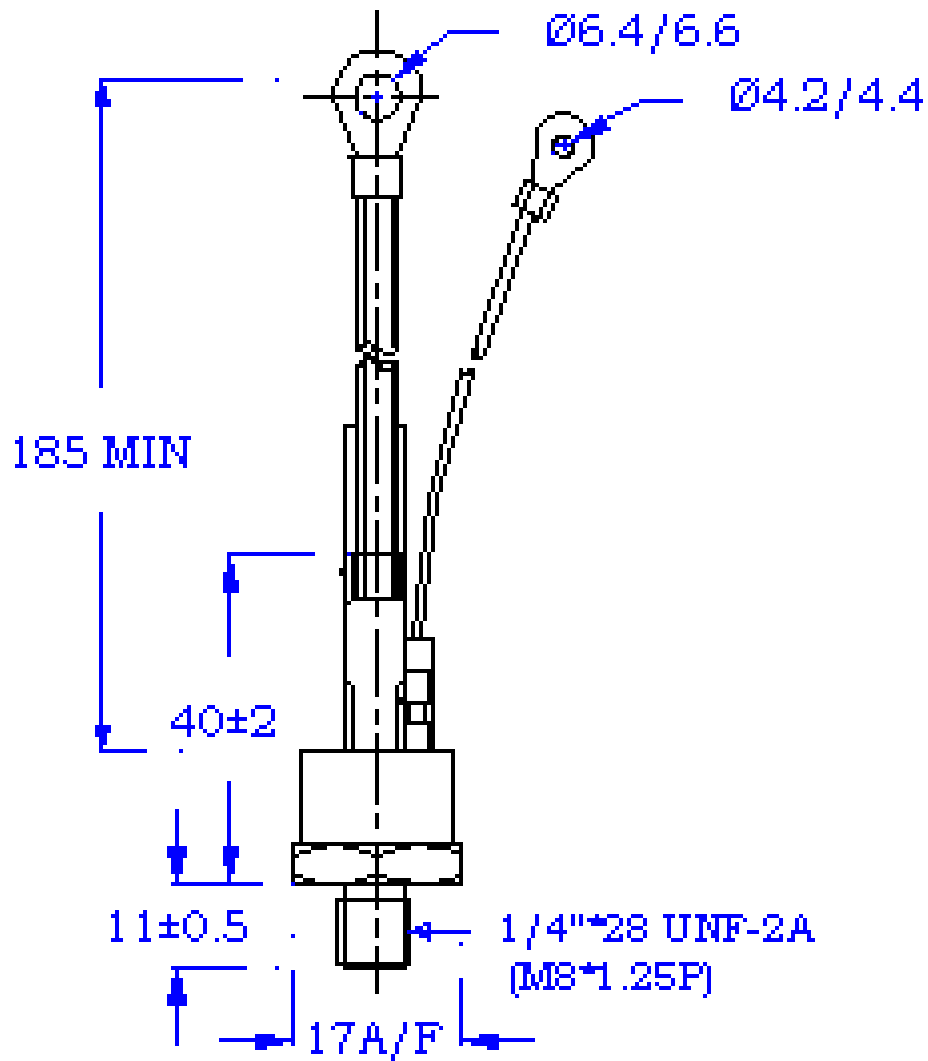




PACAKAGE DEATILS

DO NOT SCALE

All Dimensions in mm



Mounting Torque :4Nm L