

# Thyristors

## T125



### Technical Data

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

Type No.	$V_{RRM}$ (Volts)	$V_{RSM}$ (Volts)
T125/04	400	500
T125/06	600	700
T125/08	800	900
T125/10	1000	1100
T125/12	1200	1300
T125/14	1400	1500
T125/16	1600	1700

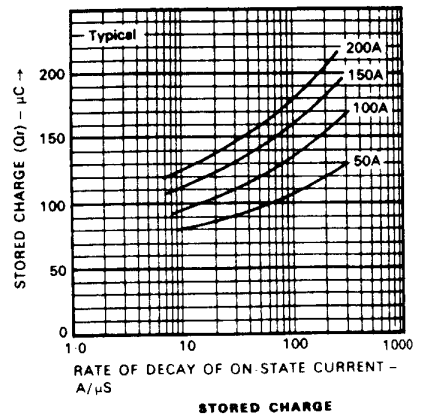
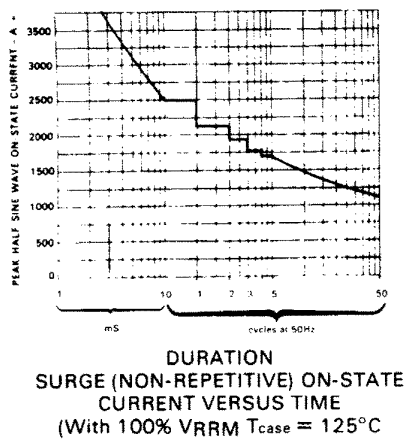
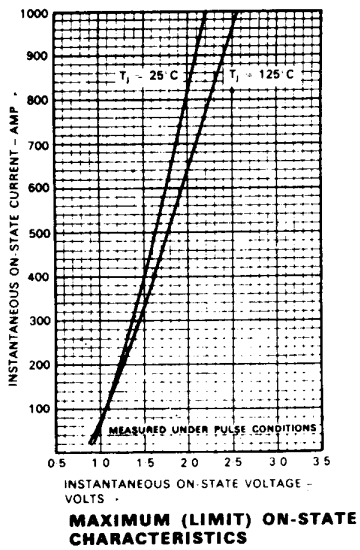
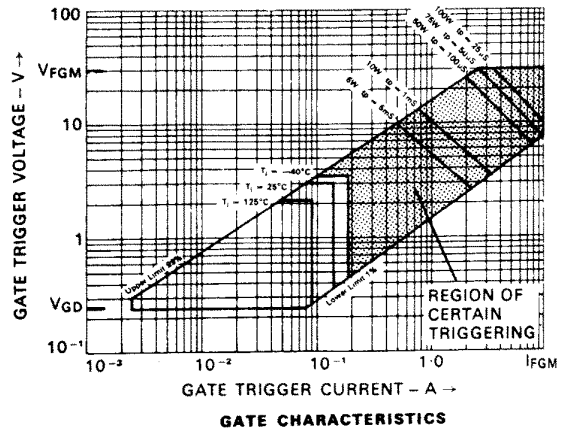
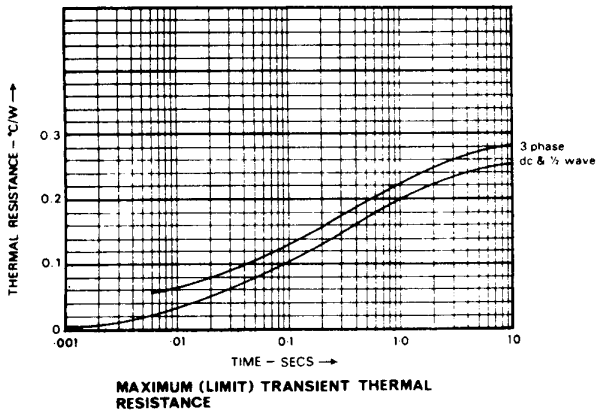
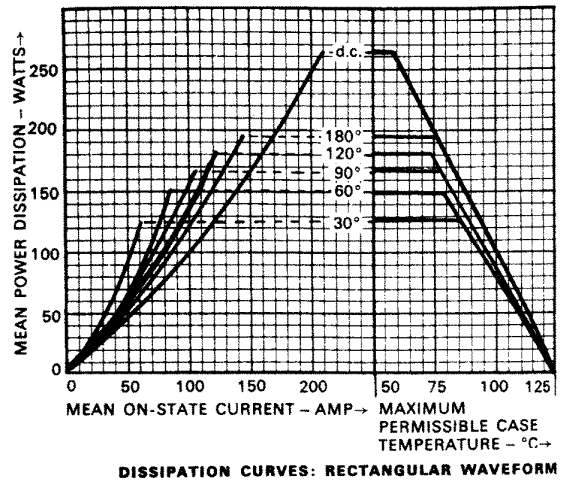
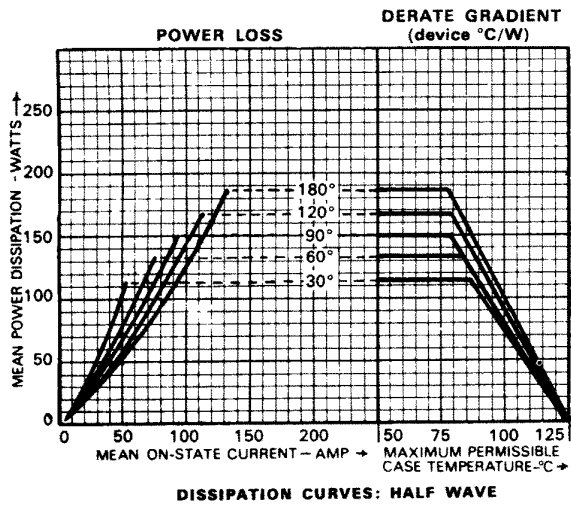
### Features

- Hermetic glass to metal seal
- Voltage grade upto 1600V
- Weight 120 gm ( Approx )

Symbol	Conditions	Values
$I_{T(AV)}$	Half wave resistive load; $T_{case} = 85\text{ }^{\circ}\text{C}$	125 A
$I_{TSM}$	$T_{vj} = 125\text{ }^{\circ}\text{C}$ ; 10 ms half sine, $V_R = 50\% V_{RRM}$	2500 A
$I^2t$	$T_{vj} = 125\text{ }^{\circ}\text{C}$ ; 10 ms half sine $T_{vj} = 125\text{ }^{\circ}\text{C}$ ; 3 ms half sine	30000 A <sup>2</sup> s 19400 A <sup>2</sup> s
$I_{GT}$ $V_{GT}$ dv/dt $[di/dt]_{CR}$	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ; $V_{DRM} = 5\text{V}$ $T_{vj} = 25\text{ }^{\circ}\text{C}$ ; $V_{DRM} = 5\text{V}$ $T_{vj} = 125\text{ }^{\circ}\text{C}$ ; Voltage = 67 % $V_{DRM}$ Repetitive 50 Hz	150 mA 3.0V *200 V/ $\mu$ s 100 A/ $\mu$ s
$V_T$ $V_0$ $R_0$ $I_{RRM}/I_{DRM}$	$T_{vj} = 25\text{ }^{\circ}\text{C}$ ; $I_T = 400\text{A}$ $T_{vj} = 125\text{ }^{\circ}\text{C}$ $T_{vj} = 125\text{ }^{\circ}\text{C}$ $T_{vj} = 125\text{ }^{\circ}\text{C}$	1.50V max 0.90 V 2.0 m 30 mA
$I_H$ $I_L$	Typ. value. Typ. value.	35 mA 53 mA
$R_{th(j-h)}$  $T_{vj}$ $T_{stg}$	dc Half wave 3-Phase	0.25 $^{\circ}\text{C/W}$ 0.25 $^{\circ}\text{C/W}$ 0.28 $^{\circ}\text{C/W}$ + 125 $^{\circ}\text{C}$ -40.....+ 125 $^{\circ}\text{C}$
Mounting torque		10 Nm
Case outline		Q

\* Higher dv/dt selection available on request





PACAKAGE DEATILS

DO NOT SCALE

All Dimensions in mm

