

Thyristors

T300



Technical Data

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

Type No.	V_{RRM} (Volts)	V_{RSM} (Volts)
T300/04	400	500
T300/06	600	700
T300/08	800	900
T300/10	1000	1100
T300/12	1200	1300
T300/14	1400	1500
T300/16	1600	1700

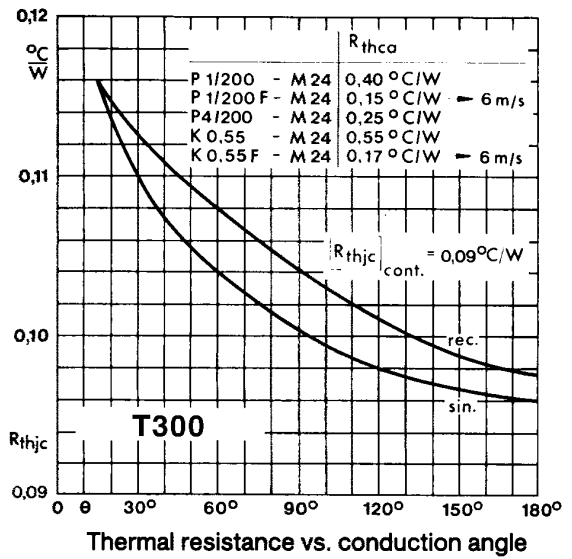
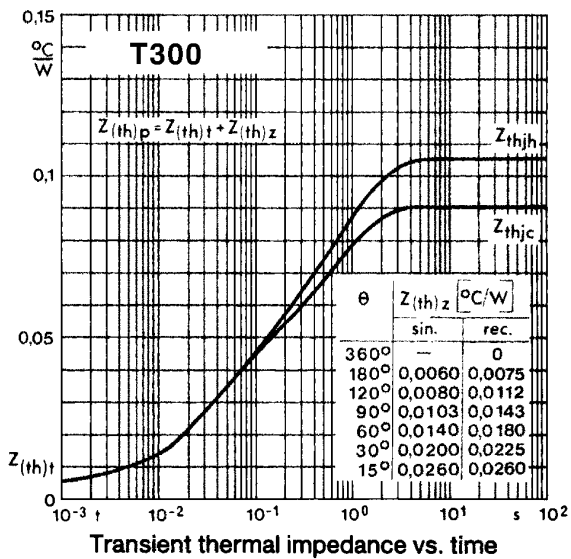
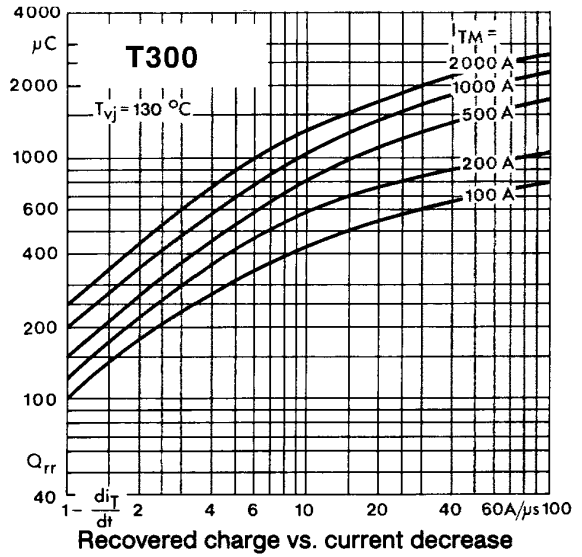
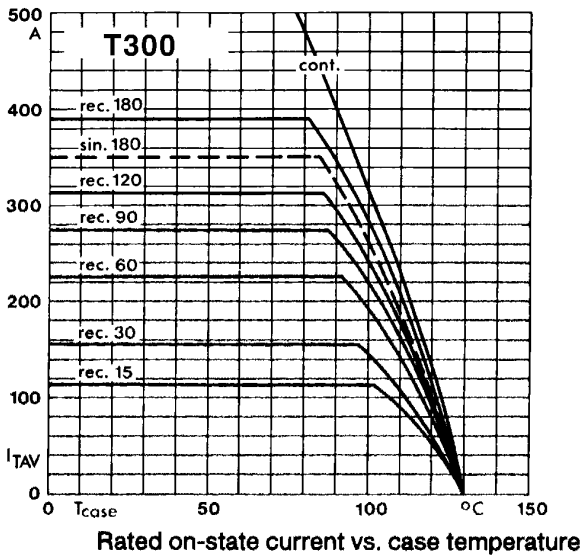
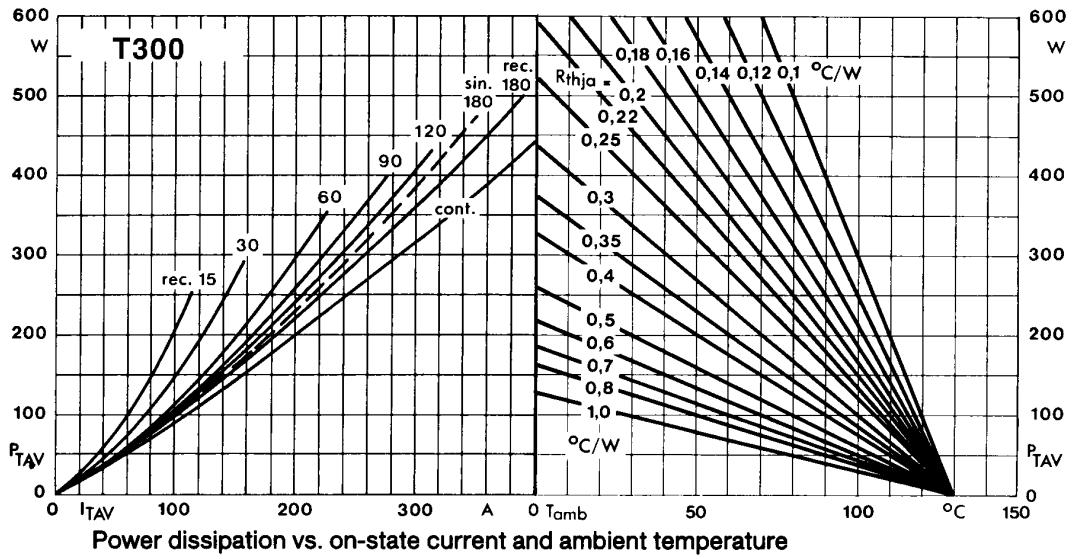
Features

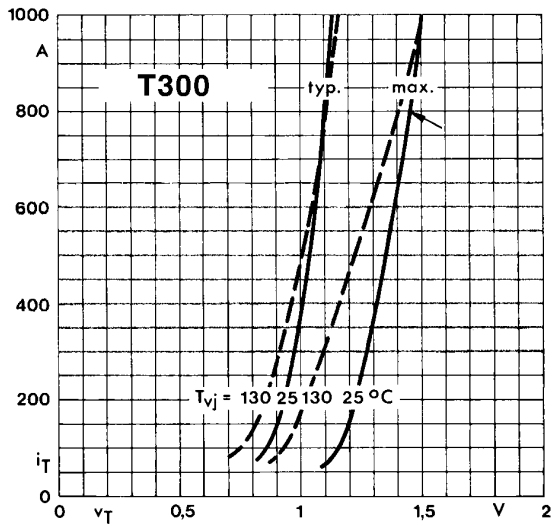
- Hermetic glass to metal seal
- Voltage grade upto 1600V
- Weight 450 gm (Approx)

Symbol	Conditions	Values
$I_{T(AV)}$	Sin 180 ; $T_{case} = 93\text{ }^{\circ}\text{C}$	300 A
I_{TSM}	$T_{vj} = 25\text{ }^{\circ}\text{C}$ $T_{vj} = 130\text{ }^{\circ}\text{C}$	11000 A 10000 A
I^2t	$T_{vj} = 25\text{ }^{\circ}\text{C}$ $T_{vj} = 130\text{ }^{\circ}\text{C}$	600000 A ² s 500000 A ² s
I_{GT} V_{GT} dv/dt $[di/dt]_{CR}$	$T_{vj} = 25\text{ }^{\circ}\text{C}; V_{DRM} = 5V$ $T_{vj} = 25\text{ }^{\circ}\text{C}; V_{DRM} = 5V$ $T_{vj} = 125\text{ }^{\circ}\text{C}; \text{Voltage} = 67\% V_{DRM}$	200 mA 3 V *200 V/ μ s 100 A/ μ s
V_T V_0 R_0 I_{RRM}/I_{DRM}	$T_{vj} = 25\text{ }^{\circ}\text{C}; I_T = 800A$ $T_{vj} = 130\text{ }^{\circ}\text{C}$ $T_{vj} = 130\text{ }^{\circ}\text{C}$ $T_{vj} = 130\text{ }^{\circ}\text{C}$	1.45 V max 0.90 V 0.50 m 50 mA
I_H I_L		Typ 150 mA; max. 250 mA Typ 300 mA; max. 600 mA
$R_{th(j-c)}$ $R_{th(c-h)}$ T_{vj} T_{stg}	Cont. Sin 180 / rec. 120	0.09 $^{\circ}\text{C}/\text{W}$ 0.096 / 0.101 $^{\circ}\text{C}/\text{W}$ 0.015 $^{\circ}\text{C}/\text{W}$ + 130 $^{\circ}\text{C}$ -40.....+ 150 $^{\circ}\text{C}$
Mounting torque		50 Nm / 12.5 Nm per Bolt
Case outline		Z / W

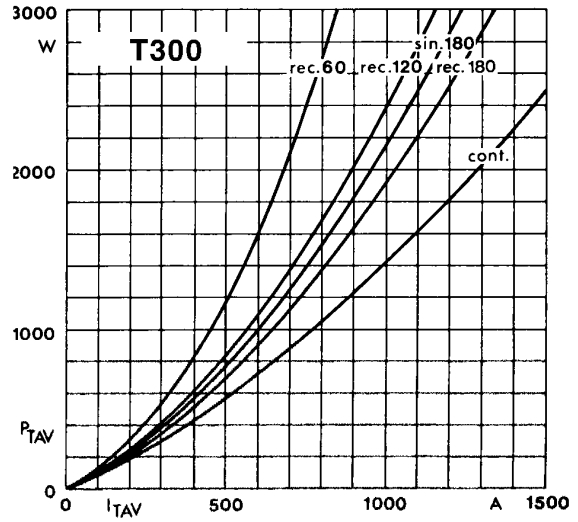
* Higher dv/dt selection available on request



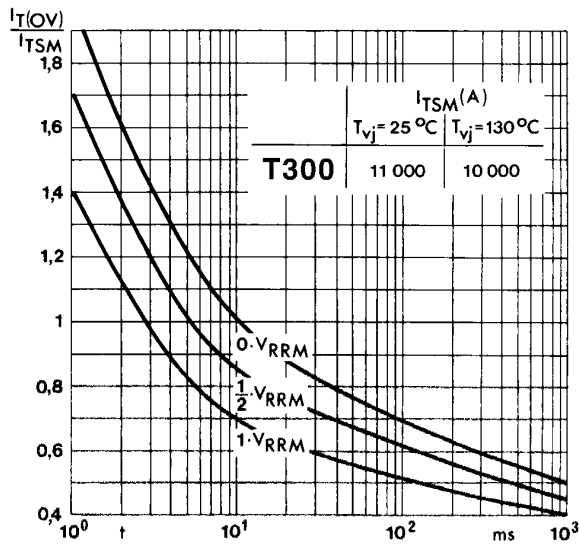




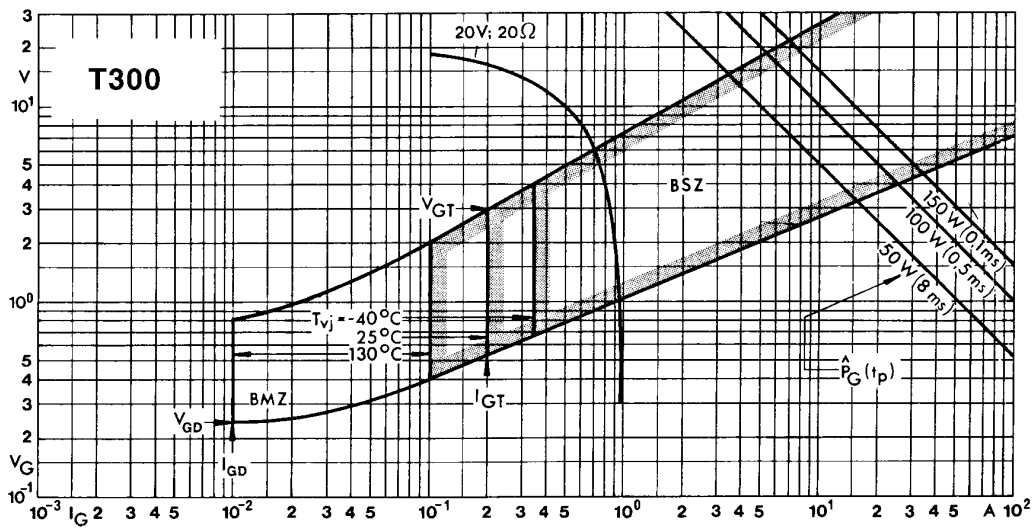
On-state characteristics



Power dissipation vs. on-state current



Surge overload current vs. time



Gate trigger characteristics

PACAKAGE DEATILS

DO NOT SCALE

All Dimensions in mm

