MS T710





Key Parameters

Vdrm / Vrrm	= 2400V
T(AV)	= 710A
ТЅМ	= 9.0kA
V _{T(TO)}	= 0.95V
rΤ	= 0.72mΩ

Features

- Full blocking capability over wide temperature range
- High Surge current capability .
- Hermetic metal case with ceramic insulator

- ApplicationsBattery ChargersMedical Equipment
- UPS
- Power Supplies
- Motor control
- **Controlled Rectifiers**
- Transportation
- Induction Heating
- Welding •

Ordering Information

MS T	710	С	XX
Phase Control Thyristor	Current Code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
der Code MS T710C	24 : 2400V V _{DRM} ,\	/ _{RRM} , 14mm clamp height capsule th	yristor
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Technical Information Phase Control Thyristor

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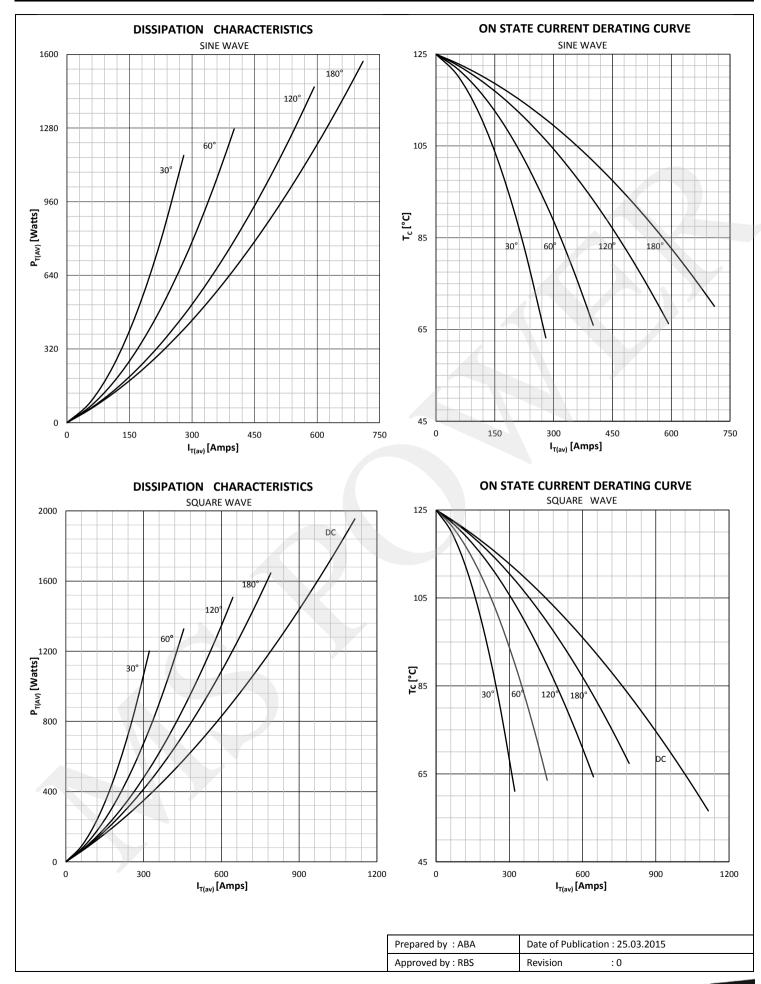


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2400	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2500	V
V drm	Repetitive peak off-state voltage		125	2000 - 2400	V
I RRM	Repetitive peak reverse current	V= V rrm	125	50	mA
I DRM	Repetitive peak off-state current	V= V drm	125	50	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, $T_c=70$ °C, Double side cooled 180° sin ,50 Hz, $T_c=76$ °C, Double side cooled		710 660	A
I RMS	RMS on-state current	T _c =70°C, Double side cooled		1115	А
1		Sine wave, 10 ms	25	9000	А
I TSM	Surge on-state current	Without reverse voltage	125	7500	Α
² t ² t	n .	Sine wave, 10 ms	25	405 x 10 ³	A²s
	² t	Without reverse voltage	125	281 x 10 ³	A²s
νт	On-state voltage	On-state current = 1650A	125	2.16	V
V T(TO)	Threshold voltage		125	0.95	V
rт	On-state slope resistance		125	0.72	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current	$V_D = 75\% V_{DRM}$ up to 860A, Gate 10V, 5 Ω	125	200	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 70\% V_{DRM}$	125	500	V/µs
GATE	L			1	
l _{gt}	Gate trigger current	V _D =6V	25	150	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
Г _н	Holding current	$V_{D}=6V$, gate open circuit	25	300	mA
I L	Latching current	V _D =6V	25	600	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.035	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.040	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.015	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
М	Clamping Force			8 - 9	kN
W	Weight (Approx.)			85	gm

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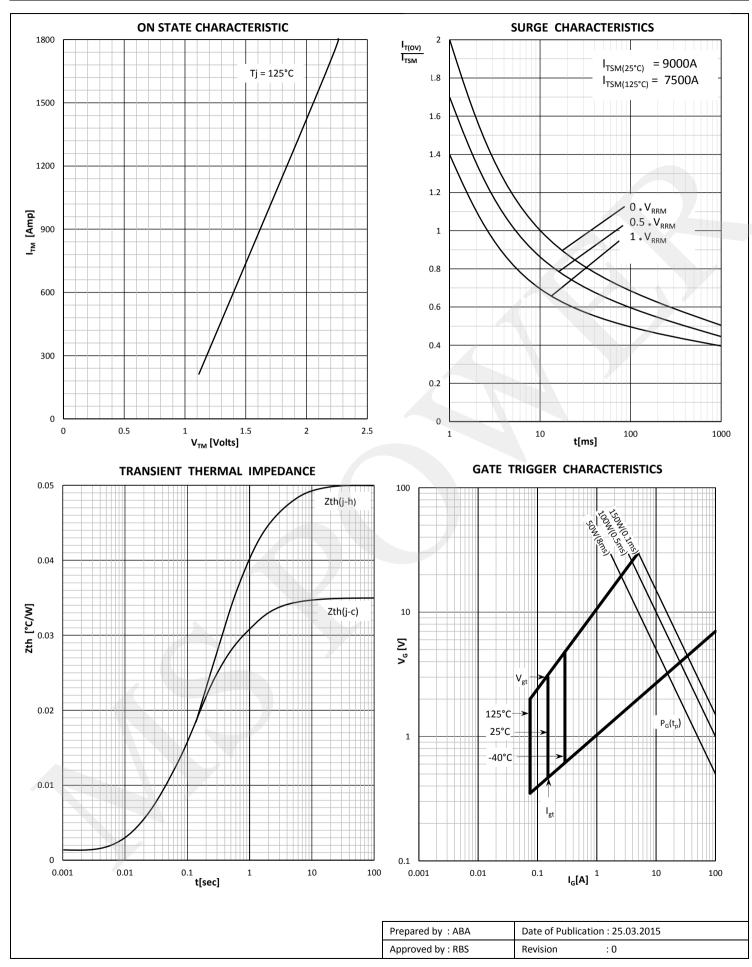




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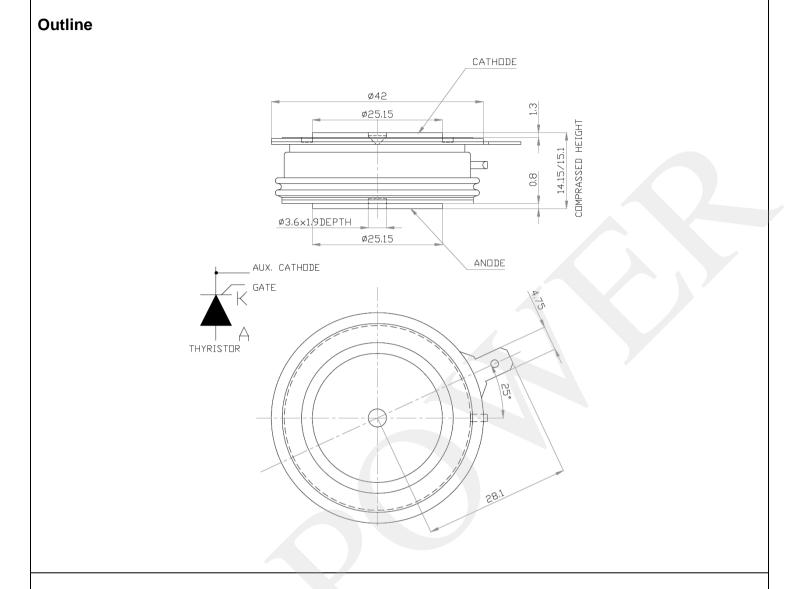




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