MS T1250





Key Parameters

Vdrm / Vrrm	= 6500V
T(AV)	= 1250A
Тѕм	= 23kA
Vt(to)	= 1.153V
rΤ	= 0.0744mΩ

Features

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

- Applications
 Battery Chargers
 Medical Equipment
- UPS
- **Power Supplies**
- Motor control
- **Controlled Rectifiers**
- Transportation •
- Induction Heating
- Welding

Ordering Information

MS T	1250	С	XX	
Phase Control Thyristor	Current Code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}	
Order Code MS T1250C65 : 6500V VDRM, VRRM, 37mm clamp height capsule thyristor				
		Prepared by : ABA	Date of Publication : 25.03.201	
		Approved by : RBS	Revision : 0	

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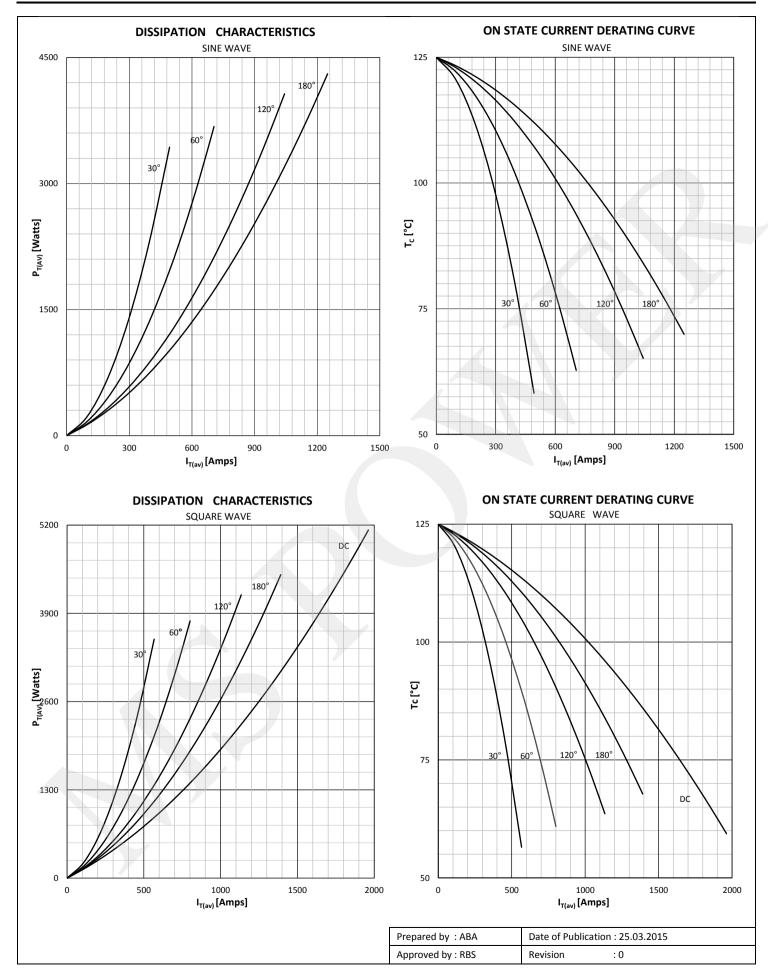


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCK	ING	·		н. Ц.	
V RRM	Repetitive peak reverse voltage		125	6000 - 6500	V
V RSM	Non-repetitive peak reverse voltage		125	6100 - 6600	V
V drm	Repetitive peak off-state voltage		125	6000 - 6500	V
I RRM	Repetitive peak reverse current	V= V RRM	125	400	mA
I DRM	Repetitive peak off-state current	V= V drm	125	400	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =70°C, Double side cooled		1250	А
I RMS	RMS on-state current	T _c =70°C, Double side cooled		1962	А
		Sine wave, 10 ms	25	23000	А
I TSM	Surge on-state current	Without reverse voltage	125	21000	А
		Sine wave, 10 ms	25	2645 x 10 ³	A²s
l² t	l ² t	Without reverse voltage	125	2205 x 10 ³	A²s
Vт	On-state voltage	On-state current = 2000A	125	2.70	V
V T(TO)	Threshold voltage		125	1.153	V
rт	On-state slope resistance		125	0.0744	mΩ
SWITCH					
di/dt	Critical rate of rise of on-state current		125	100	A/µs
dv/dt	Critical rate of rise of off-state voltage	V _{DR} = 67%V _{DRM}	125	1000	V/µs
GATE	1			1 1	
I _{gt}	Gate trigger current	V _D =6V	25	250	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
Г _н	Holding current	V _D =6V, gate open circuit	25	800	mA
ΙL	Latching current	V _D =6V	25	1000	mA
MOUNT	ING		1	1	
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.013	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.015	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.002	°C/W
Тj	Max. junction temperature			125	°C
,	Storage temperature			-40 125	°C
T stg				27 - 45	kN
	Clamping Force				

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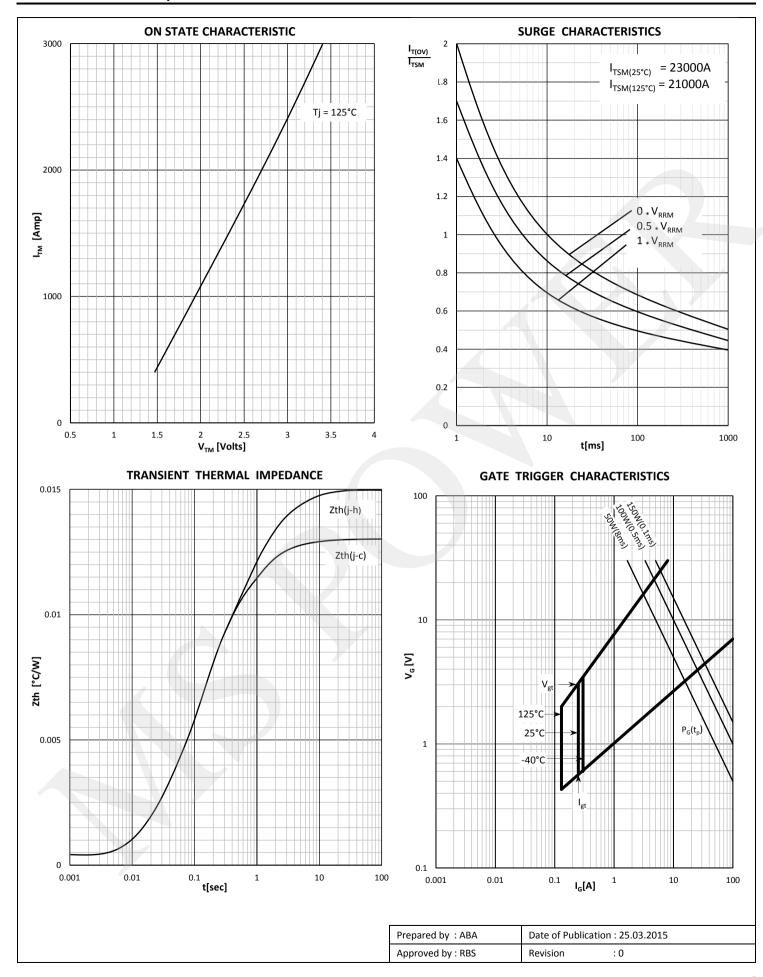
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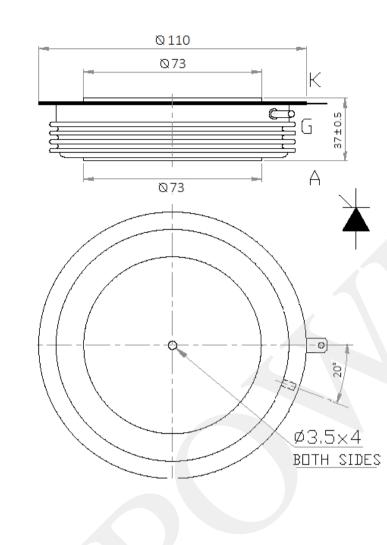




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-the conclusion of Quality Agreements;

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