MS T550





Key Parameters

Vdrm / Vrrm	= 2400V
IT(AV)	= 550A
ТЅМ	= 10.0kA
V _{T(TO)}	= 0.99V
rт	= 0.47mΩ

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	550	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 T5500	24 : 2400V Vdrm,Vr	RM, 26mm clamp height capsule thyr	istor
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Technical Information Phase Control Thyristor

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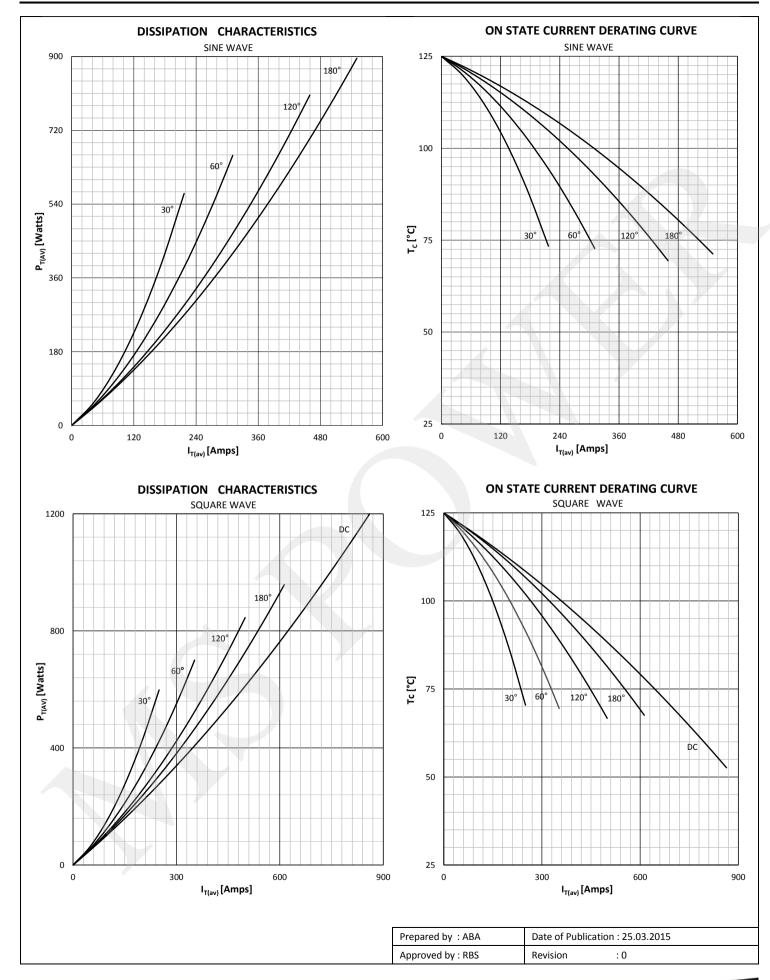
Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG			<u> </u>	
V RRM	Repetitive peak reverse voltage		125	200 - 2400	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 2500	V
V drm	Repetitive peak off-state voltage		125	200 - 2400	V
I RRM	Repetitive peak reverse current	V= V RRM	125	30	mA
DRM	Repetitive peak off-state current	V= V drm	125	30	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =70°C, Double side cooled		550	А
I RMS	RMS on-state current	T _c =70°C, Double side cooled		864	Α
I TSM S		Sine wave, 10 ms	25	10000	А
	Surge on-state current	Without reverse voltage	125	9200	А
		Sine wave, 10 ms	25	500 x 10 ³	A²s
l² t	l ² t	Without reverse voltage	125	423 x 10 ³	A²s
Vт	On-state voltage	On-state current = 625A	125	1.34	V
V T(TO)	Threshold voltage		125	0.99	V
rт	On-state slope resistance		125	0.47	mΩ
SWITCH	ling				
di/dt	Critical rate of rise of on-state current	Repetitive	125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	500	V/µs
GATE				<u> </u>	
l _{gt}	Gate trigger current	V _D =6V	25	150	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
Iн	Holding current	V _D =6V, gate open circuit	25	600	mA
I L	Latching current	V _D =6V	25	1000	mA
MOUNT	ING				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, Double side cooled		0.060	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, Double side cooled		0.069	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, Double side cooled		0.02	°C/W
Тj	Max. junction temperature			125	°C
•)	Storage temperature			-40 125	°C
T stg	.			12 - 15	kN
	Clamping Force			12 - 15	

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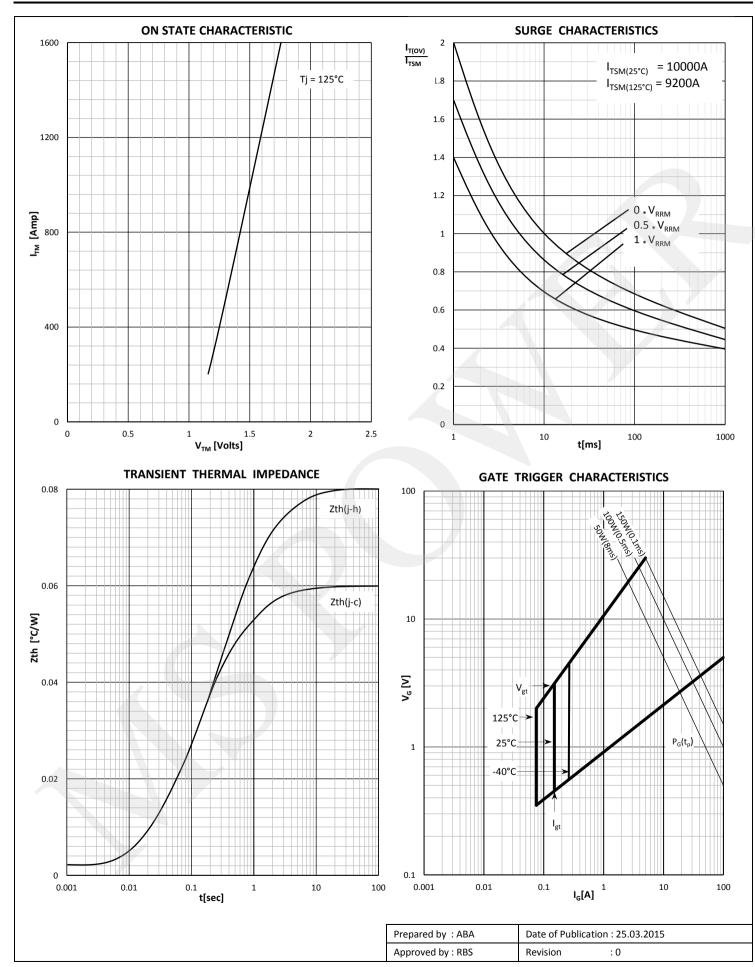




Technical Information Phase Control Thyristor

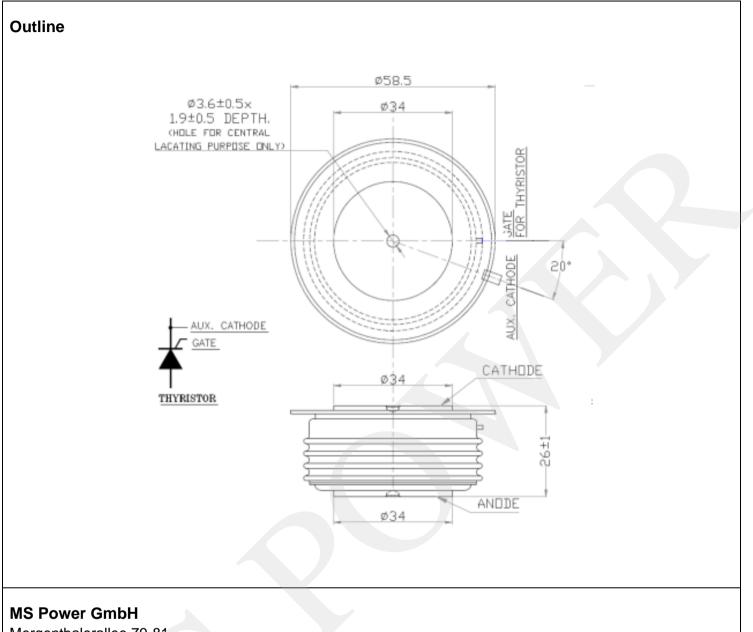
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