MS TT520





Key Parameters

Vdrm / Vrrm	= 2200V
It(av)	= 520A
ITSM	= 18000A
V _{T(TO)}	= 0.85V
rт	= 0.35mΩ

Features

- Full blocking capability over wide temperature rangeHeat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability
- UL Recognized, file no. E505556

- ApplicationsPower SuppliesDC motor control
- **Controlled Rectifiers** .
- AC switch

Ordering Information

MS	TT	520	К	22			
Fixed code	TT- Thyristor- Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}			
Order Code MS TT520K22 : 2200V VDRM, VRRM, Thyristor-Thyristor Module							
			Prepared by : ABA	Date of Publication : 25.03.2015			
			Approved by : RBS	Revision : 1			

MS TT520

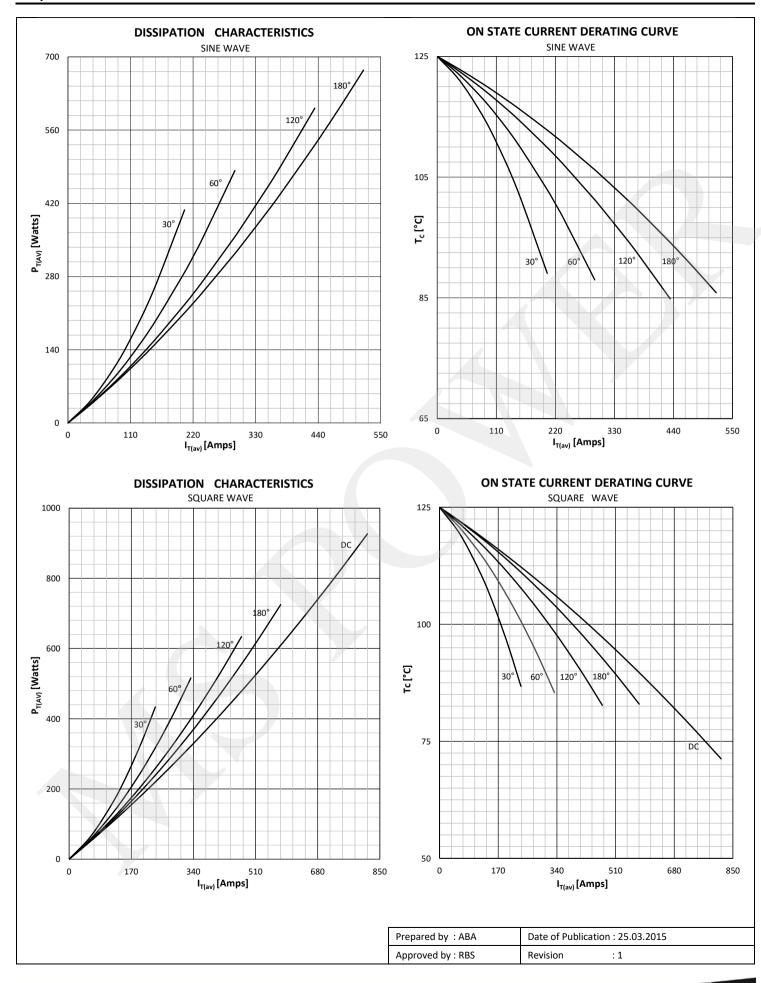


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2200	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2300	V
V drm	Repetitive peak off-state voltage		125	2000 - 2200	V
I RRM	Repetitive peak reverse current	V= V RRM	125	100	mA
I DRM	Repetitive peak off-state current	V= V drm	125	100	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		520	А
I RMS	RMS on-state current			816	А
		Sine wave, 10 ms	25	18000	А
I TSM	Surge on-state current	Without reverse voltage	125	15400	A
		Sine wave, 10 ms	25	1620 x 10 ³	A ² s
l² t	l ² t	Without reverse voltage	125	1186 x 10 ³	A²s
Vт	On-state voltage	On-state current = 1500A	125	1.50	V
V T(TO)	Threshold voltage		125	0.85	V
г т	On-state slope resistance		125	0.35	mΩ
			120	0.00	11132
SWITCH di/dt	ING Critical rate of rise of on-state current		125	200	A // 10
					A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE			05	000	
l _{gt}	Gate trigger current	V _D =6V	25	200	mA
V gt	Gate trigger voltage	V _D =6V	25	3.0	V
I _н	Holding current	$V_{D}=6V$, gate open circuit	25	300	mA
ΙL	Latching current	V _D =6V	25	1500	mA
MOUNTI	NG			0.0500	
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.0580 0.0290	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.066 0.033	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.02 0.01	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 150	°C
VISOL	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			6 ± 15%	Nm
M2	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			1450	gm
AI ®	File No.			E505556	
		Prepared by : ABA	Date of Pub	lication : 25.03.2015	i

Approved by : RBS Revision : 1

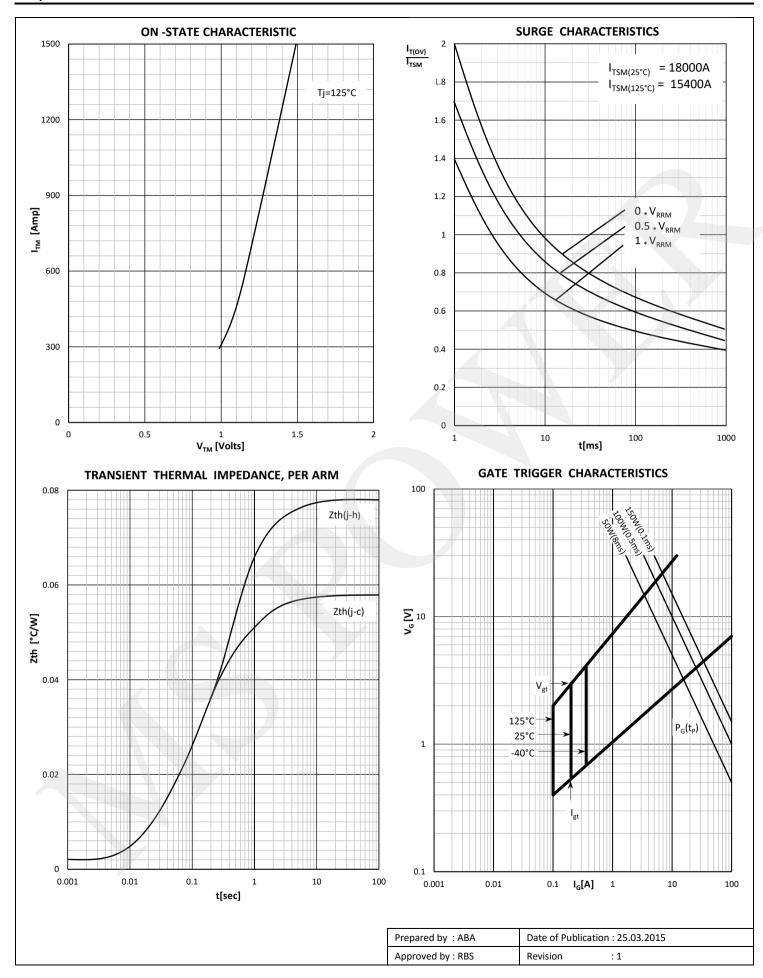
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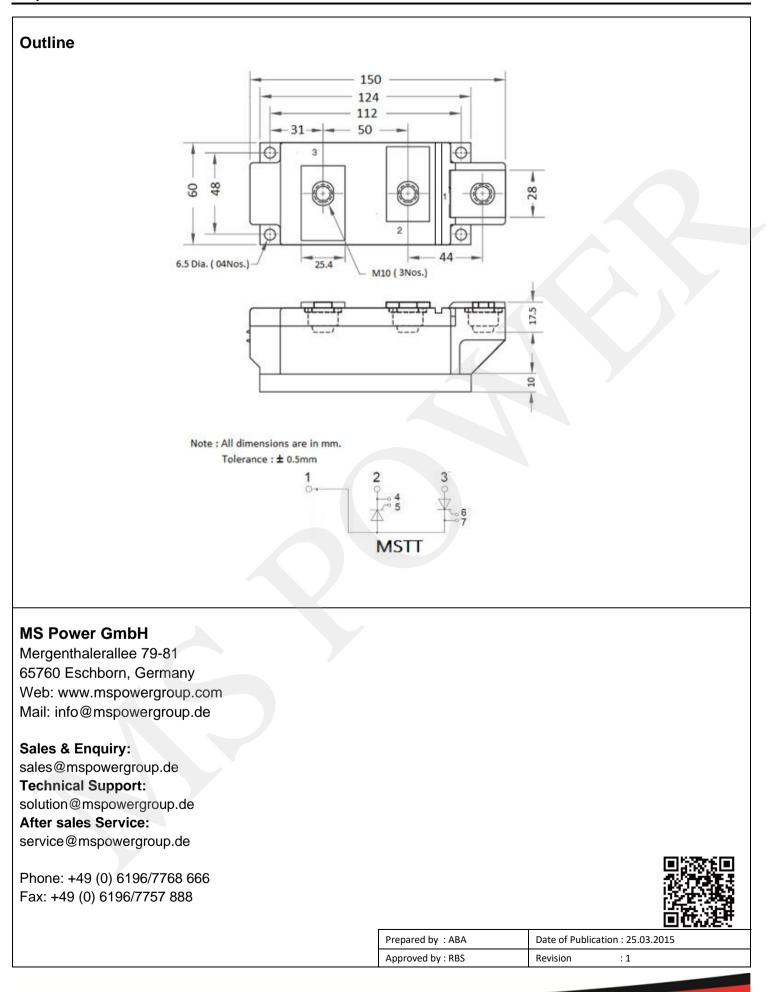
MS TT520





MS TT520





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