MS TT250





Key Parameters

Vdrm / Vrrm	= 1800V
IT(AV)	= 250A
Ітѕм	= 9000A
V _{T(TO)}	= 0.85V
ľΤ	= 1.0mΩ

Features

- Full blocking capability over wide temperature range •
- Heat transfer through aluminium oxide ceramic isolated . metal baseplate
- Pressure contacts technology for high reliabilityUL Recognized, file no. E505556

- ApplicationsPower Supplies
- DC motor control .
- **Controlled Rectifiers**
- AC switch

Ordering Information

MS	π	250	К	18	
Fixed code	TT- Thyristor- Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code ology Code X 100 = V _{DRM} /V _{RRM}	
Order Code MS TT250K18 : 1800V VDRM, VRRM, Thyristor-Thyristor Module					
			Prepared by : ABA	Date of Publication : 25.03.2015	
			Approved by : RBS	Revision :1	

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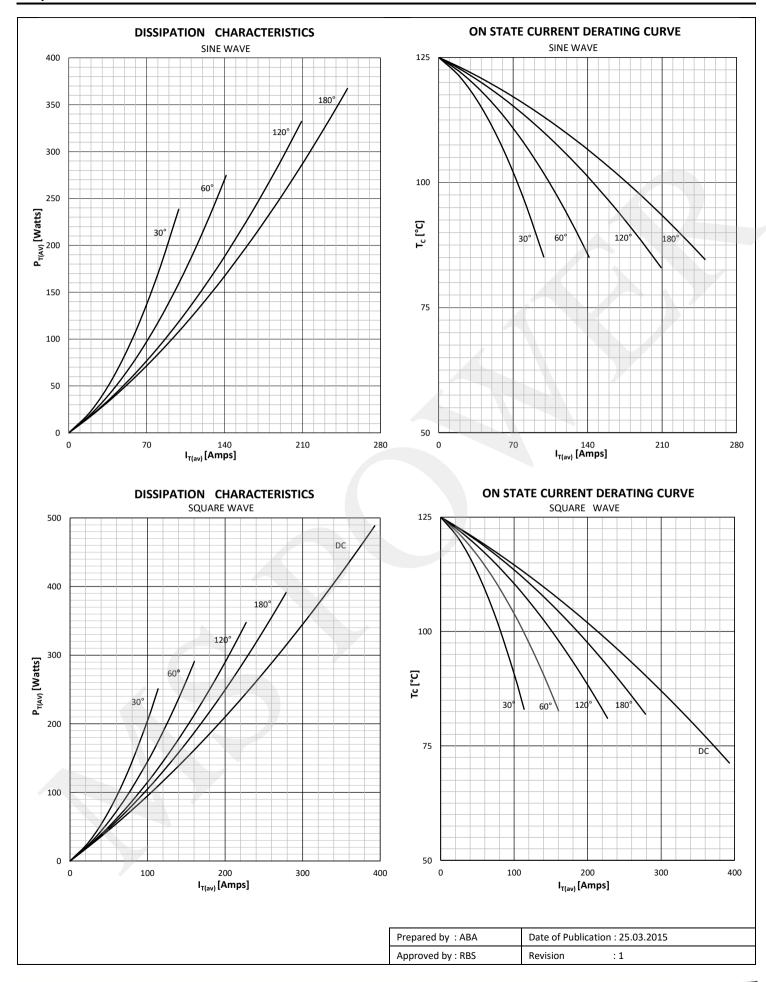


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCK	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1900	V
V drm	Repetitive peak off-state voltage		125	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	40	mA
I DRM	Repetitive peak off-state current	V= V drm	125	40	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		250	А
I RMS	RMS on-state current			393	А
		Sine wave, 10 ms	25	9000	А
I TSM	Surge on-state current	Without reverse voltage	125	8000	A
			25	405000	A²s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	125	320000	A ² s
Vт		On-state current = 600A			V N
	On-state voltage	On-state current = 600A	25	1.53	
V T(TO)	Threshold voltage		125	0.85	V
rт	On-state slope resistance		125	1.0	mΩ
SWITCH	ling				
di/dt	Critical rate of rise of on-state current		125	150	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE					
l _{gt}	Gate trigger current	V _D =6V	25	200	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, per arm		0.11	°C/W
		per module Junction to case, per arm		0.055	
R th(j-c)	Thermal impedance, rec120°	per module		0.065	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.04 0.02	°C/W
		per module		125	°C
	Max junction temperature			120	
Тj	Max. junction temperature			-40 150	°C
T j T stg	Storage temperature	E-50Hz 1min		-40 150	°C
T j T stg V _{ISOL}	Storage temperature Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
T j T stg V _{ISOL} M1	Storage temperature Insulation test voltage,RMS Mounting torque	F=50Hz, 1min		3.0 5 ± 15%	KV Nm
T j T stg V _{ISOL} M1 M2	Storage temperature Insulation test voltage,RMS Mounting torque Terminal connection torque	F=50Hz, 1min		3.0 5 ± 15% 12 ± 15%	KV Nm Nm
T j T stg V _{ISOL} M1	Storage temperature Insulation test voltage,RMS Mounting torque	F=50Hz, 1min		3.0 5 ± 15%	KV Nm

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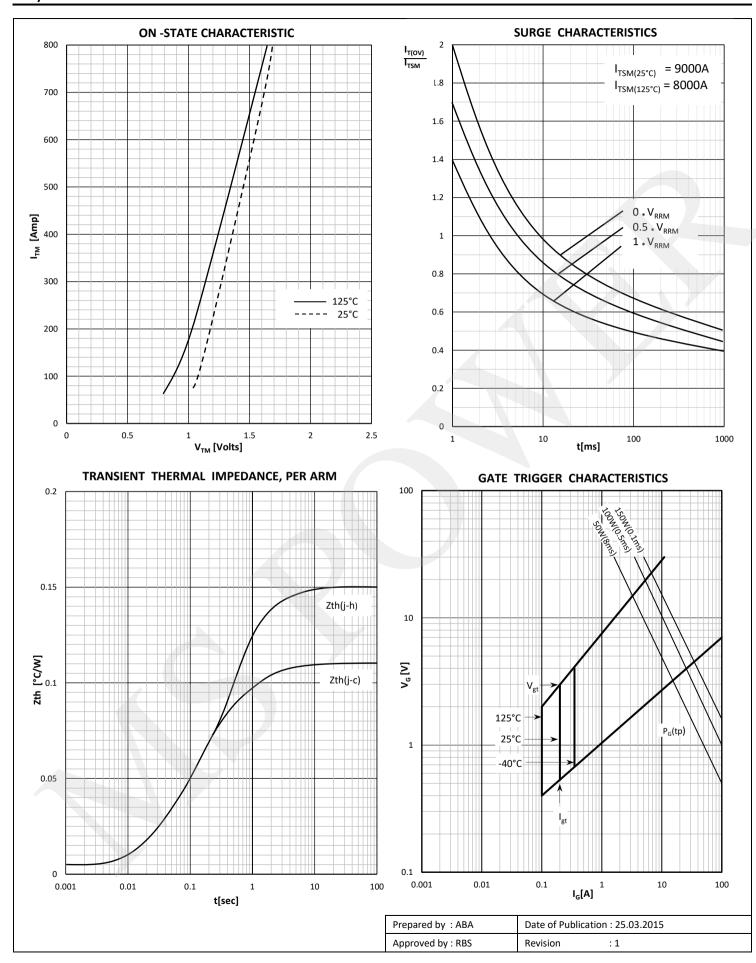
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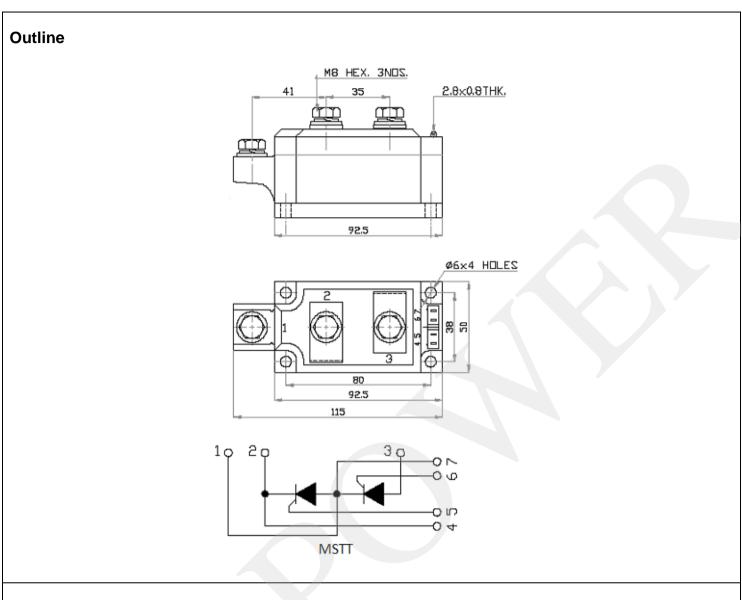


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NS power



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