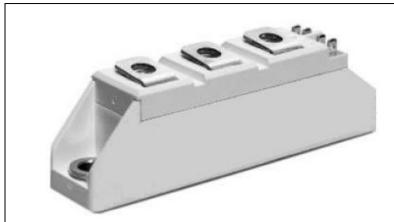
Technical Information Thyristor / Diode Modules

MS TT/TD50





Key Parameters

Vdrm / Vrrm	= 1800V
It(AV)	= 50A
Тзм	= 1500A
V _{T(TO)}	= 0.9V
rт	= 3.5mΩ

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability

- ApplicationsPower Supplies
- DC motor control .
- **Controlled Rectifiers**
- Temperature control

Ordering Information

MS	Π	50	S	XX
Fixed code	TT- Thyristor- Thyristor Module TD- Thyristor- Diode Module	Current Code	Technology S = Solder Bond Technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
Order Code	MS TT50S18 : 1800V VDRM, VRI	км, Thyristo	r-Thyristor Module	
			Prepared by : ABA	Date of Publication : 25.03.2015
			Approved by : RBS	Revision : 1

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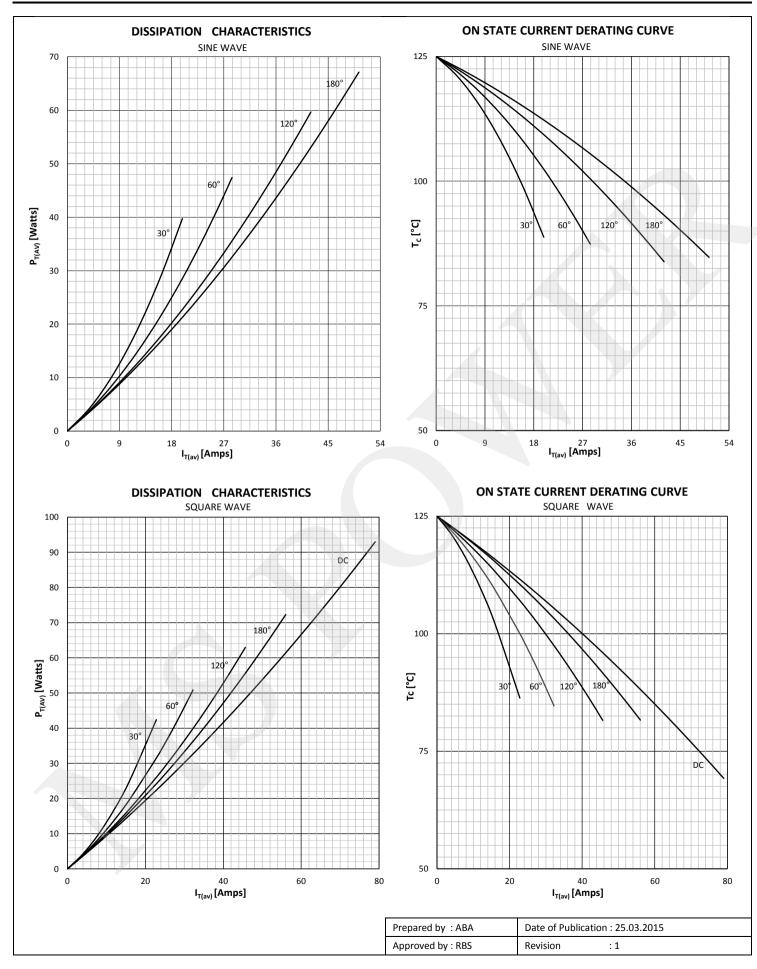


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1900	V
V drm	Repetitive peak off-state voltage		125	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	15	mA
I DRM	Repetitive peak off-state current	V= V drm	125	15	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		50	А
I RMS	RMS on-state current			79	А
	Surge on-state current	Sine wave, 10 ms	25	1500	А
I TSM		Without reverse voltage	125	1250	А
			25	11250	A²s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	125	7812	A²s
νт	On-state voltage	On-state current = 200A	25	1.65	V
V T(TO)	Threshold voltage		125	0.9	V
гт	On-state slope resistance		125	3.5	mΩ
			120	0.0	
SWITCH 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
	Childanale of hise of on-state voltage	V DR - OT 78 V DRM	125	1000	ν/μ3
GATE	Gate trigger current	V _D =6V	25	150	mA
V gt	Gate trigger voltage	V _D =6V	25	3.0	V
I _H	Holding current	V _D =6V, gate open circuit	25	250	mA
ін І	Latching current	V _D =6V	25	600	mA
	-		20	000	110 (
MOUNT		Junction to case, per arm		0.60	
R th(j-c)	Thermal impedance, sin 180°	per module		0.30	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.69 0.35	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.2 0.1	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 125	°C
VISOL	Insulation test voltage,RMS	F=50Hz, 1min		2.5	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			3 ± 15%	Nm
W	Weight (Approx.)			105	gm

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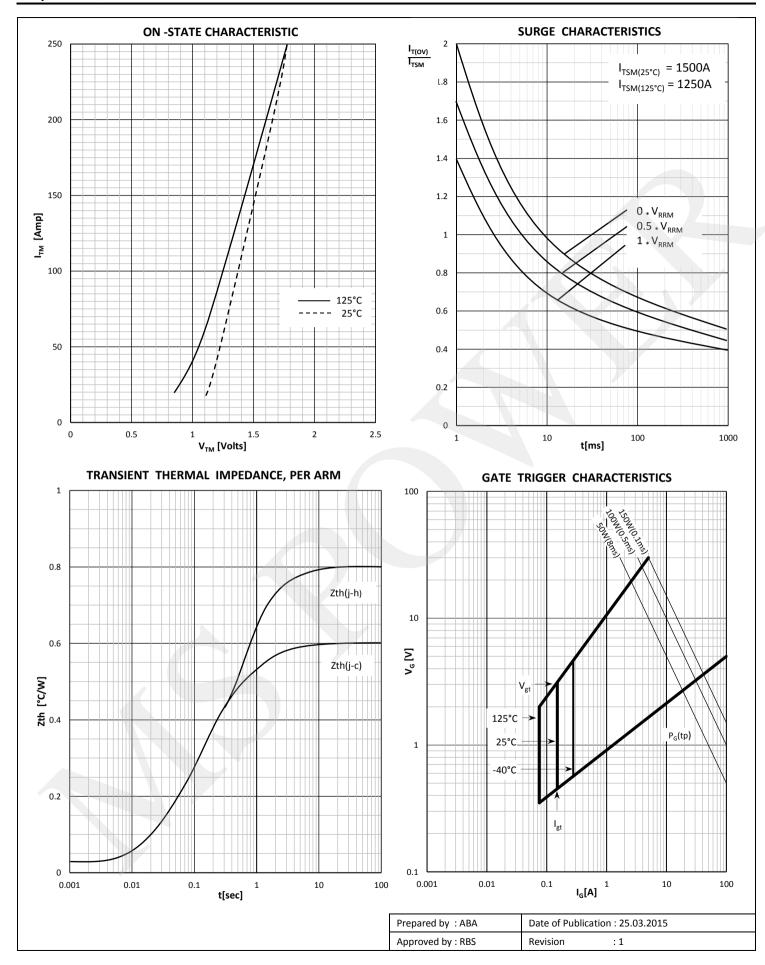
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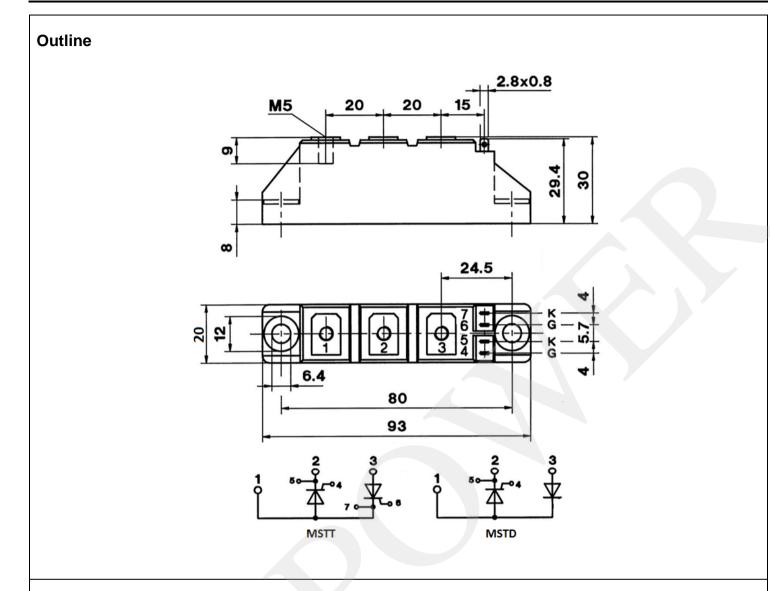




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MS Power GmbH

Mergenthalerallee 79-81 65760 Eschborn, Germany Web: www.mspowergroup.com Mail: info@mspowergroup.de

Sales & Enquiry:

sales@mspowergroup.de Technical Support: solution@mspowergroup.de After sales Service: service@mspowergroup.de

Phone: +49 (0) 6196/7768 666 Fax: +49 (0) 6196/7757 888



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-the conclusion of Quality Agreements;

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