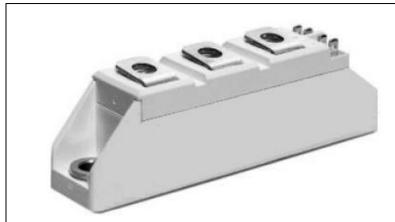
Technical Information Thyristor / Diode Modules

MS TT/TD40





Key Parameters

Vdrm / Vrrm	= 1800V
IT(AV)	= 40A
Ітѕм	= 1000A
V _{T(TO)}	= 1.0V
rт	= 4.5mΩ

Features

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

Applications

- Power Supplies
- DC motor control
- Controlled Rectifiers
- Temperature control

Ordering Information

MS	Π	40	S	X X
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 TT40S18 : 1800V VDRM, VRRM, Thyristor-Thyristor Module				
			Prepared by : ABA	Date of Publication : 25.03.2015

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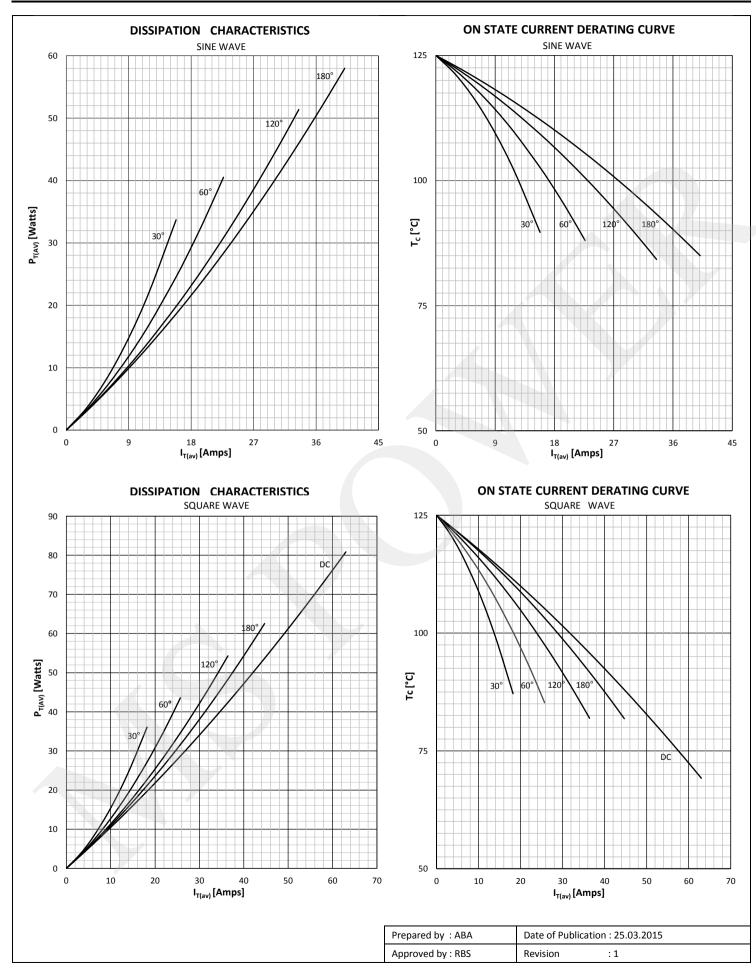


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1900	V
V drm	Repetitive peak off-state voltage		125	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	15	mA
I DRM	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		40	А
I RMS	RMS on-state current	T _c =85°C		63	А
	_	Sine wave, 10 ms	25	1000	А
I TSM	Surge on-state current	Without reverse voltage	125	850	A
		Sine wave, 10 ms	25	5000	A²s
l² t	l² t	Without reverse voltage	125	3612	A²s
Vт	On-state voltage	On-state current = 200A	25	1.95	V
V t(to)	Threshold voltage		125	1.0	V
<u>г</u> т	On-state slope resistance		125	4.5	mΩ
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
GATE					
l _{gt}	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
I L	Latching current	V _D =6V	25	600	mA
MOUNTI	NG			1 1	
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.69 0.35	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.79 0.40	°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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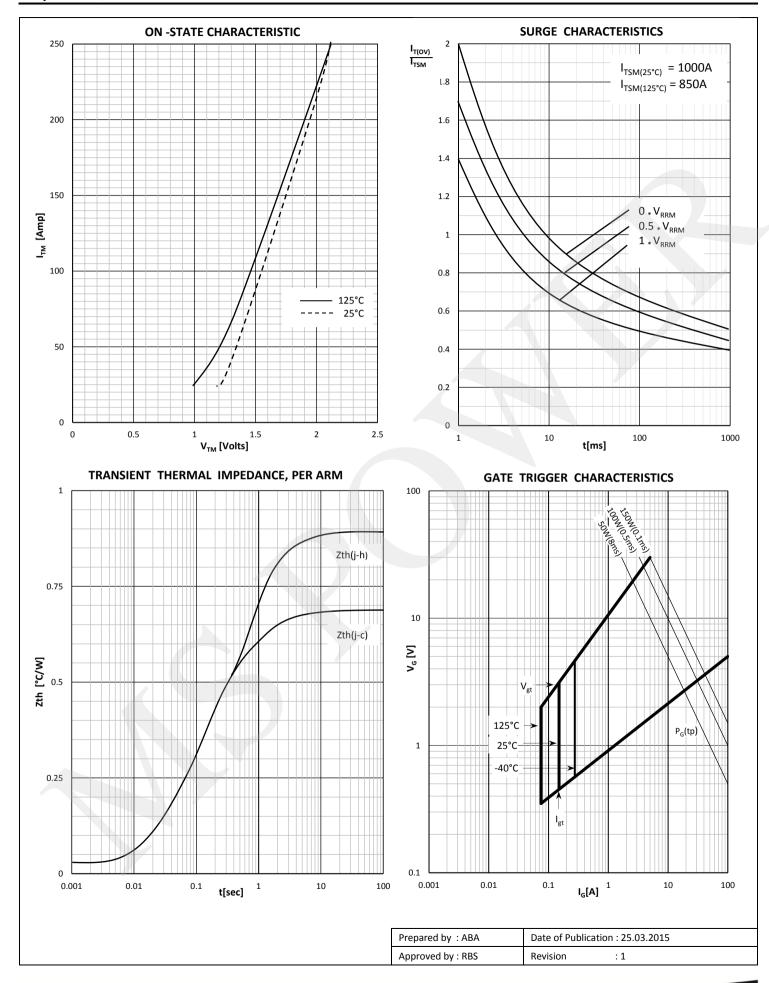
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Technical Information Thyristor / Diode Modules

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-the conclusion of Quality Agreements;

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