MS TT501





Key Parameters

Vdrm / Vrrm	= 1600V
IT(AV)	= 501A
Ітѕм	= 18500A
V _{T(TO)}	= 0.90V
rт	= 0.26mΩ

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	501	К	16
Fixed code	TT- Thyristor- Thyristor Module	Current Code	Technology K = Pressure Contact Technolog	Voltage Code Code X 100 = V _{DRM} /V _{RRM}
Order Code	MS TT501K16 : 1600V V _{DRM} , V _{RR}	м, Thyristor	-Thyristor Module	
			Prepared by : ABA	Date of Publication : 25.03.2015
			Approved by : RBS F	Revision : 1

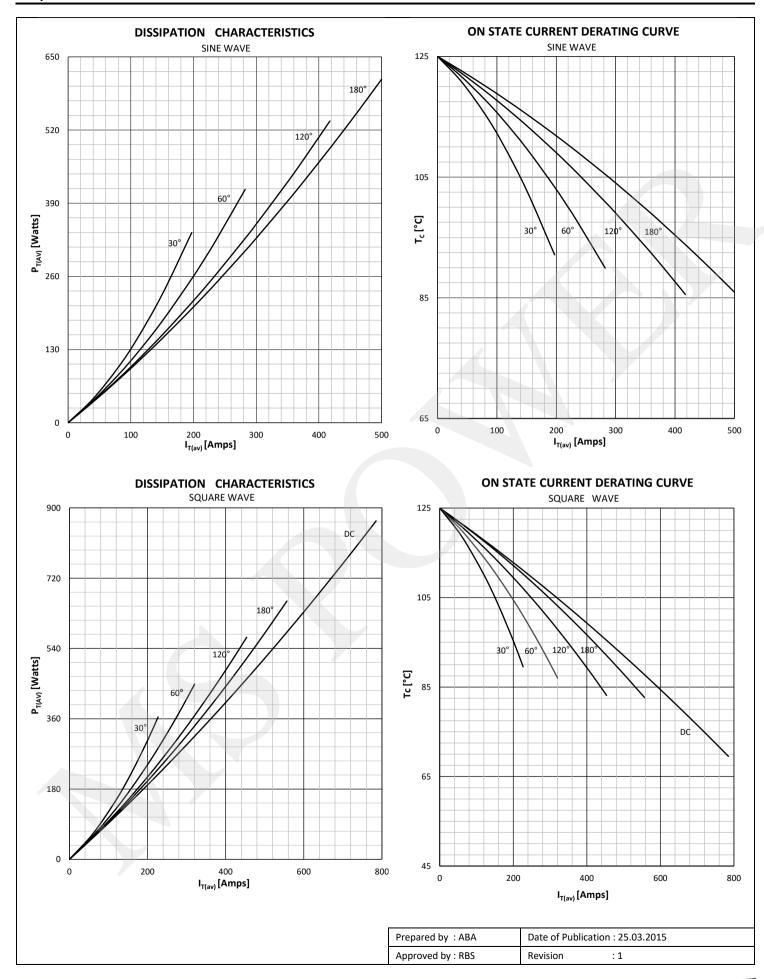
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Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1700	V
V drm	Repetitive peak off-state voltage		125	200 - 1600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	80	mA
I DRM	Repetitive peak off-state current	V= V drm	125	80	mA
CONDU	CTING	<u>.</u>			
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =86°C 180° sin ,50 Hz, T _c =85°C		501 508	A
I RMS	RMS on-state current	T _c =86°C		785	А
		Sine wave, 10 ms	25	18500	А
I TSM	Surge on-state current	Without reverse voltage	125	17500	А
			25	1711 x 10 ³	A ² s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	125	1531 x 10 ³	A ² s
\/ -					
V T	On-state voltage	On-state current = 1500A	25	1.30	V
V t(to)	Threshold voltage		125	0.90	V
rт	On-state slope resistance		125	0.26	mΩ
SWITCH	ING	_		I	
di/dt	Critical rate of rise of on-state current		125	200	A/µs
dv/dt	Critical rate of rise of off-state voltage	V _{DR} = V _{DRM}	125	1000	V/µs
GATE					
I _{gt}	Gate trigger current	V _D =6V	25	200	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
Г _н	Holding current	$V_D=6V$, gate open circuit	25	300	mA
ΙL	Latching current	V _D =6V	25	1500	mA
ΜΟυΝΤΙ	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.064 0.032	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.074 0.037	°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
91 °	File No.			E505556	
		Prepared by : ABA		lication : 25.03.2015	

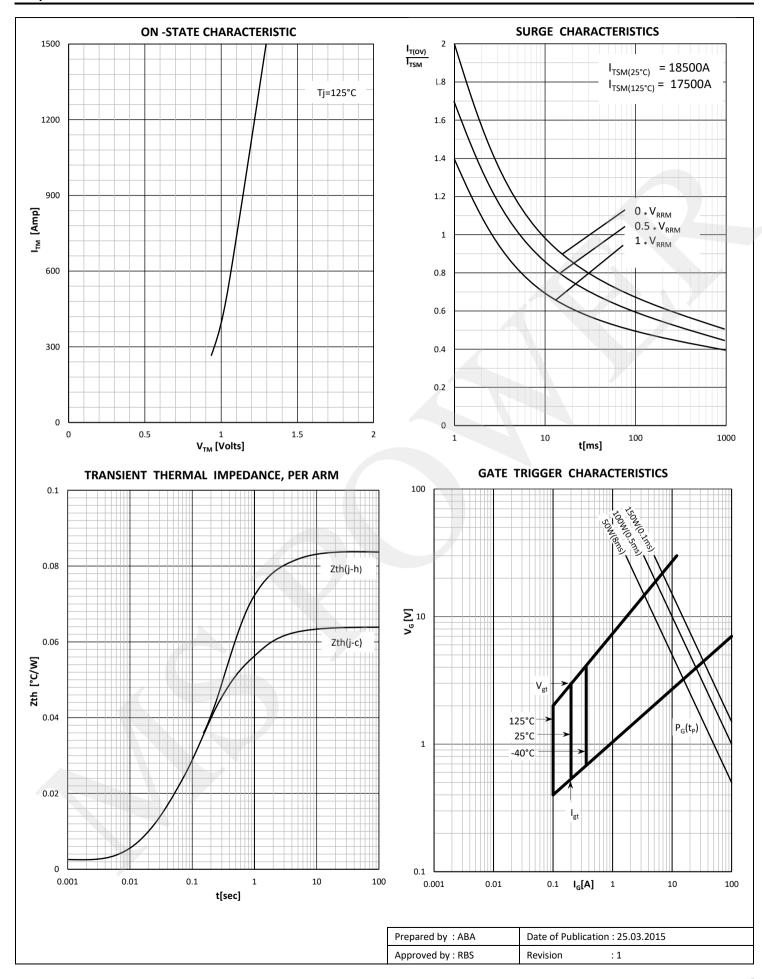
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Outline 150 124 112 50 31 3 C 48 8 28 0 44 6.5 Dia. (04Nos.) 25.4 M10 (3Nos.) 17.5 2 Note : All dimensions are in mm. Tolerance : ± 0.5mm 1 MSTT

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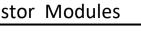
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