MS TT510





Key Parameters

Vdrm / Vrrm	= 2200V
It(AV)	= 510A
ITSM	= 17000A
V _{T(TO)}	= 0.95V
rт	= 0.45mΩ

Features

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

ApplicationsPower Supplies

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

Ordering Information

U						
MS	тт	510	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 TT510K22: 2200V VDRM, VRRM, Thyristor-Thyristor Module						
Prepared by : ABA Date of Publication : 25.03.2015			te of Publication : 25.03.2015			
			Approved by : RBS Re	vision : 1		

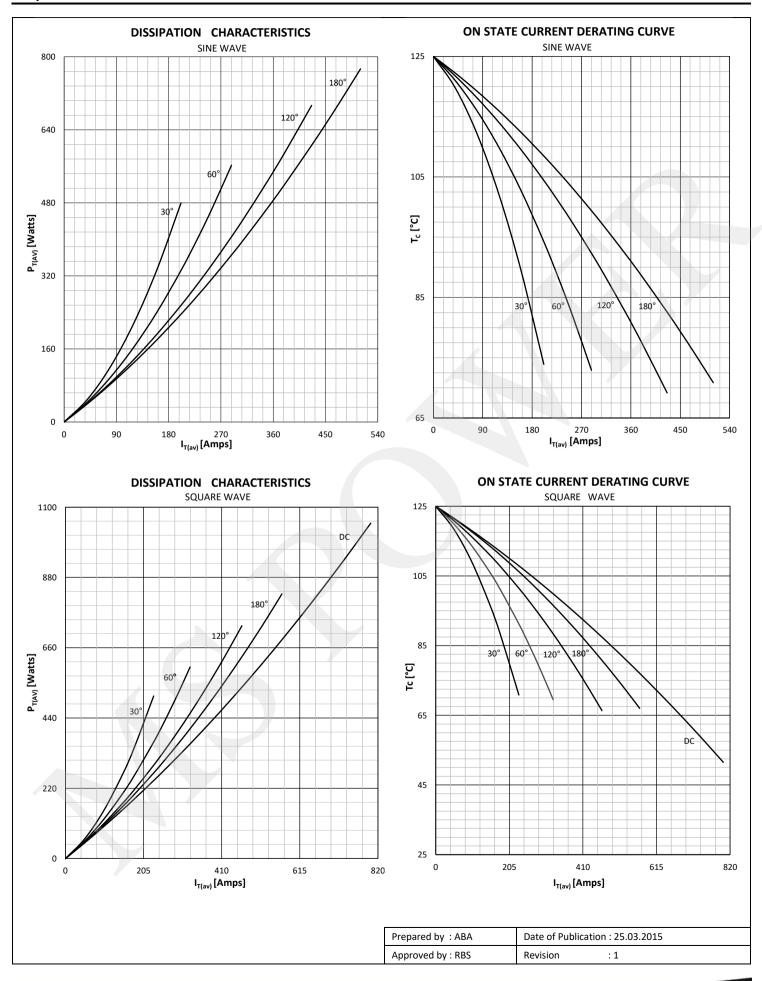
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Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	1800 - 2200	V
V RSM	Non-repetitive peak reverse voltage		125	1900 - 2300	V
V drm	Repetitive peak off-state voltage		125	1800 - 2200	V
I RRM	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				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =70°C 180° sin ,50 Hz, T _c =85°C		510 432	A
I RMS	RMS on-state current	T _c =70°C		801	А
		Sine wave, 10 ms	25	17000	А
I TSM	Surge on-state current	Without reverse voltage	125	15000	Α
		Sino wovo 10 mo	25	1445 x 10 ³	A²s
l ² t l ² t	² t	Sine wave, 10 ms Without reverse voltage	125	1125 x 10 ³	A ² s
Vт	On-state voltage	On-state current = 1500A	25	1.47	V
	-				-
V T(TO)	Threshold voltage		125	0.95	V
٢T	On-state slope resistance		125	0.45	mΩ
SWITCH	ING				
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					
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	500	mA
ΙL	Latching current	V _D =6V	25	1500	mA
MOUNT	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.0650 0.0325	°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
۶L®	File No.			E505556	
	▼				
		Prepared by : ABA	Date of Pub	lication : 25.03.2015	
		Approved by : RBS	Revision	:1	

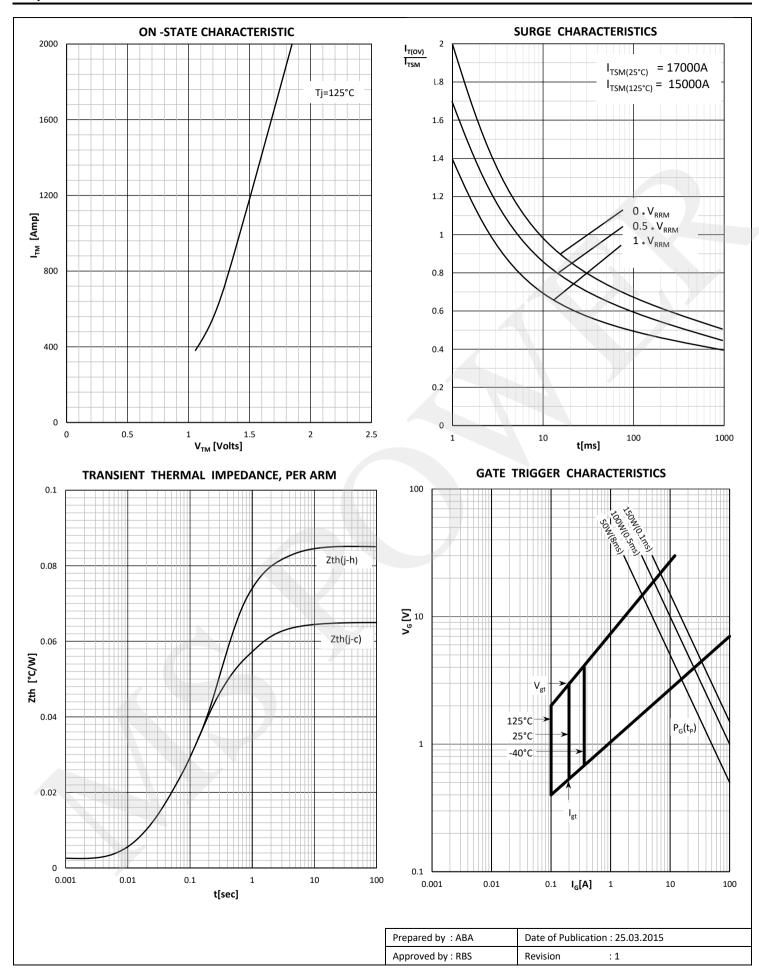
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Outline 150 124 112 31-50 0 3 48 60 8 0 6.5 Dia. (04Nos.) 25.4 M10 (3Nos.) 17.5 9 Note : All dimensions are in mm. Tolerance : ± 0.5mm 1

MSTT

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 Prepared by : ABA
 Date of Publication : 25.03.2015

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 Revision : 1





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	Prepared by : ABA	Date of Publication : 25.03.2015	
	Approved by : RBS	Revision : 1	
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