MS TT252





Key Parameters

 $\begin{array}{lll} V_{DRM} \, / \, V_{RRM} &= 2400 V \\ I_{T(AV)} &= 252 A \\ I_{TSM} &= 8700 A \\ V_{T(TO)} &= 0.80 V \\ r_{T} &= 0.70 m \Omega \end{array}$

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

Applications

- Power Supplies
- DC motor control
- Controlled Rectifiers
- AC switch

Ordering Information

MS	TT	252	К	24
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 TT252K24: 2400V V_{DRM}, V_{RRM}, Thyristor-Thyristor Module

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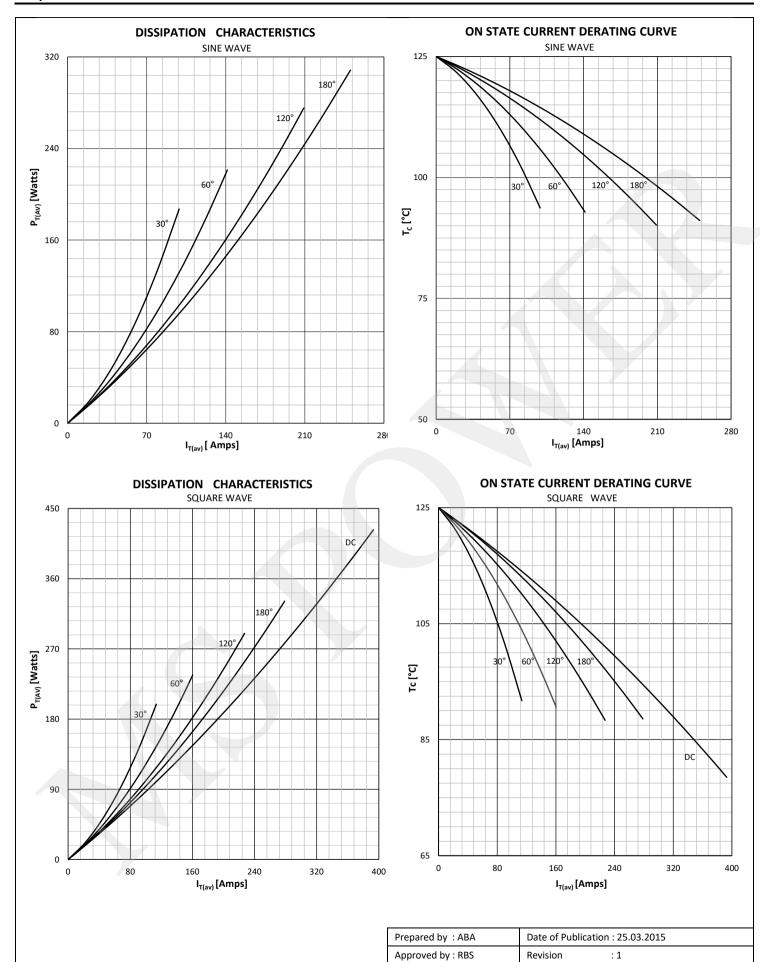
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Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 2400	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2500	V
V DRM	Repetitive peak off-state voltage		125	2000 - 2400	V
I RRM	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 =91°C 180° sin ,50 Hz, T _c =85°C		252 283	А
I RMS	RMS on-state current	T _c =91°C		393	А
		Sine wave, 10 ms	25	8700	A
I тѕм	Surge on-state current	Without reverse voltage	125	7600	Α
		Sing ways 40 mg	25	378450	A ² s
l² t	I² t	Sine wave, 10 ms Without reverse voltage	125	288800	A ² s
V т	On-state voltage	On-state current = 785A	25	1.50	
		OFFState Culterit = 700A			
V T(TO)	Threshold voltage		125	0.80	
rт	On-state slope resistance		125	0.70	mΩ
SWITCH	ING				
di/dt	Critical rate of rise of on-state current	Non-repetitive f=1Hz, I_{GM} =2.0A, di_G/dt >1.0A/ μ s, I_{TM} =2 I_{TAV} , V_D =67% V_{DRM}	125	500	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	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
I _H	Holding current	V _D =6V, gate open circuit	25	600	mA
l L	Latching current	V _D =6V	25	1000	mA
MOUNTI	NG		-		
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.11 0.055	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.13 0.065	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.04 0.02	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 150	°C
V _{ISOL}	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			650	gm
A1 ®	File No.			E505556	
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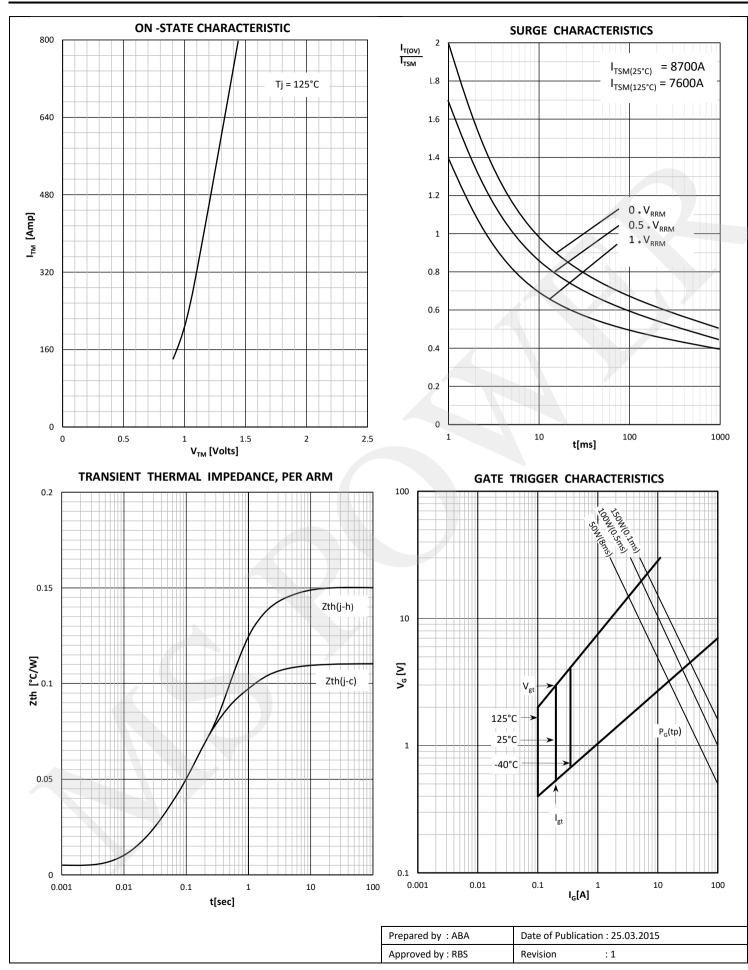
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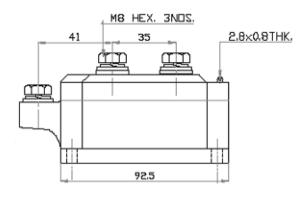
Technical Information

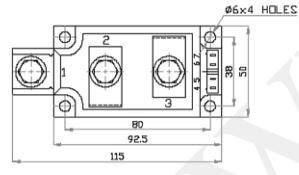
Thyristor Modules

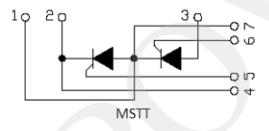
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