MS TT240





Key Parameters

VDRM / VRRM =4000V= 240A $I_{T(AV)}$ = 7000AITSM $V_{T(TO)}$ = 1.563V $= 2.141 \text{m}\Omega$ rт

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	240	K	40
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 TT240K40 : 4000V VDRM, VRRM, Thyristor-Thyristor Module				

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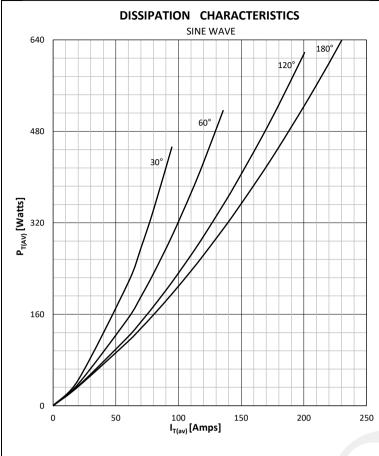
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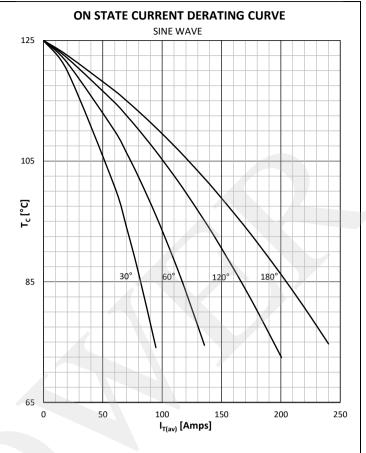


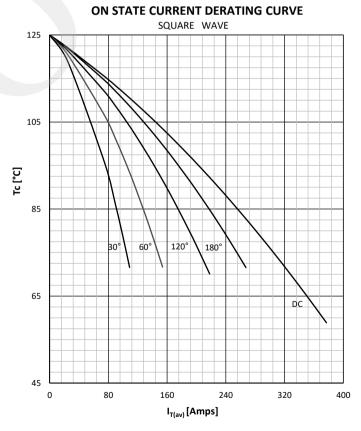
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
вьоскі	NG				
V RRM	Repetitive peak reverse voltage		125	2000 - 4000	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 4100	V
V DRM	Repetitive peak off-state voltage		125	2000 - 4000	V
I RRM	Repetitive peak reverse current	V= V RRM	125	75	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	75	mA
CONDU	CTING		'		
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =74°C 180° sin ,50 Hz, T _c =85°C		240 200	А
I RMS	RMS on-state current	T _c =74°C		377	А
	Surge on-state current	Sine wave, 10 ms	25	7000	A
I TSM		Without reverse voltage	125	6000	Α
		Sine wave, 10 ms	25	245 x 10 ³	A²s
l² t	l² t	Without reverse voltage	125	180 x 10 ³	A²s
Vт	On-state voltage	On-state current = 1000A	25	3.5	V
V T(TO)	Threshold voltage	On state current = 1000A	125	1.563	
. ,				2.141	
rт	On-state slope resistance		125	2.141	mΩ
WITCH					
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					
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	300	mA
I _L	Latching current	V _D =6V	25	1500	mA
//OUNTI	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
Τj	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			6 ± 15%	Nm
M2	Terminal connection torque			12 ± 15%	Nm
W	Weight (Approx.)			1450	gm
FU ®	File No.			E505556	
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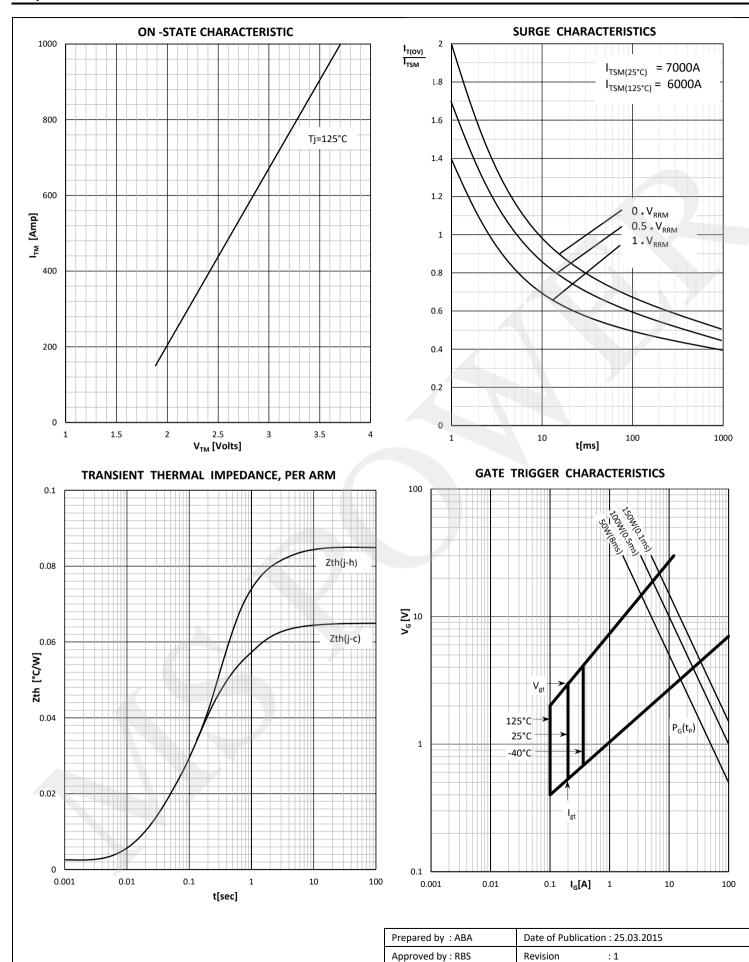




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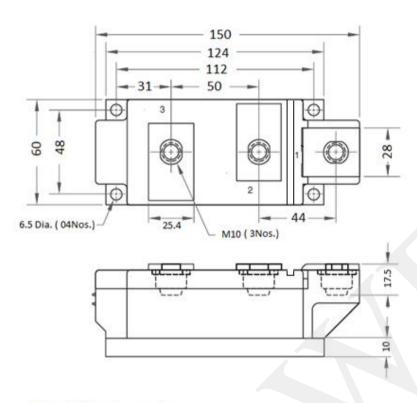




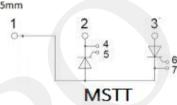
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Outline



Note : All dimensions are in mm. Tolerance : ± 0.5mm



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