MS TZ150





Key Parameters

VDRM / VRRM = 2600 V= 150A = 4500A = 1.20V $I_{T(AV)}$ ITSM $V_{T(TO)}$ $= 2.30 \text{m}\Omega$ rт

Features

- Full blocking capability over wide temperature rangeHeat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability

ApplicationsPower Supplies

- DC motor control
- Controlled Rectifiers

Ordering Information

MS	TZ	150	K	ХX
Fixed code	TZ - Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V_{DRM}/V_{RRM}
Order Code	MS TZ150K26	: 2600V V _{DRM} ,V _{RR}	M, Thyristor Module	

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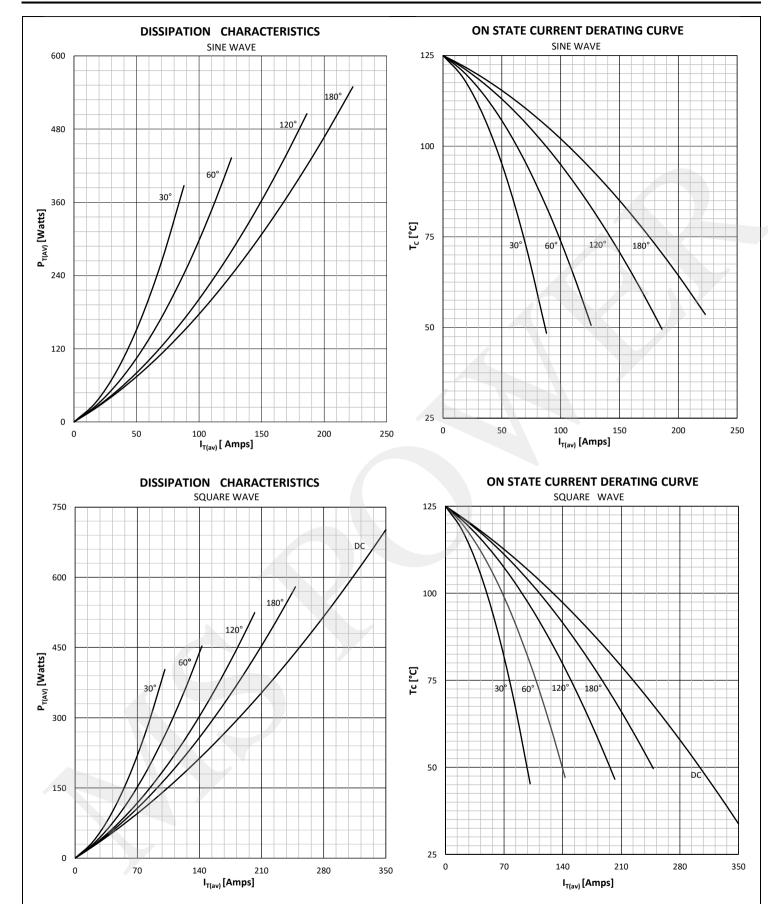


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCK	ING				
V RRM	Repetitive peak reverse voltage		125	2000 - 2600	V
V RSM	Non-repetitive peak reverse voltage		125	2100 - 2700	V
V DRM	Repetitive peak off-state voltage		125	2000 - 2600	V
I RRM	Repetitive peak reverse current	V= V RRM	125	50	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	50	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C 180° sin ,50 Hz, T _c =54°C		150 223	A
I RMS	RMS on-state current			350	Α
		Sine wave, 10 ms	25	4500	A
I TSM	Surge on-state current	Without reverse voltage	125	4000	Α
		Sing ways 40 mg	25	101 x 10 ³	A ² s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	125	80 x 10 ³	A²s
Vт	On-state voltage	On-state current = 600A	125	2.60	V
V T(TO)	Threshold voltage		125	1.20	V
rт	On-state slope resistance		125	2.30	mΩ
CMITOL	·				
SWITCH di/dt	Critical rate of rise of on-state current	i _{GM} =1.0A, d _{iG} /dt=1.0A/µs, f=50Hz	125	60	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
	Critical rate of rise of off-state voltage	V _{DR} = 07 70 V _{DRM}	123	1000	v/µ8
GATE	Cata triange assument	V 6V	0.5	200	A
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
ΙL	Latching current	V _D =6V	25	1000	mA
MOUNT	ING				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per module		0.13	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per module		0.14	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per module		0.04	°C/W
Тj	Max. junction temperature			125	°C
T stg	Storage temperature			-40 130	°C
V _{ISOL}	Insulation test voltage,RMS	F=50Hz, 1min		3.0	KV
* ISOL	Mounting torque			7 ± 15%	Nm
M1				1	
	Terminal connection torque			12 ± 15%	Nm

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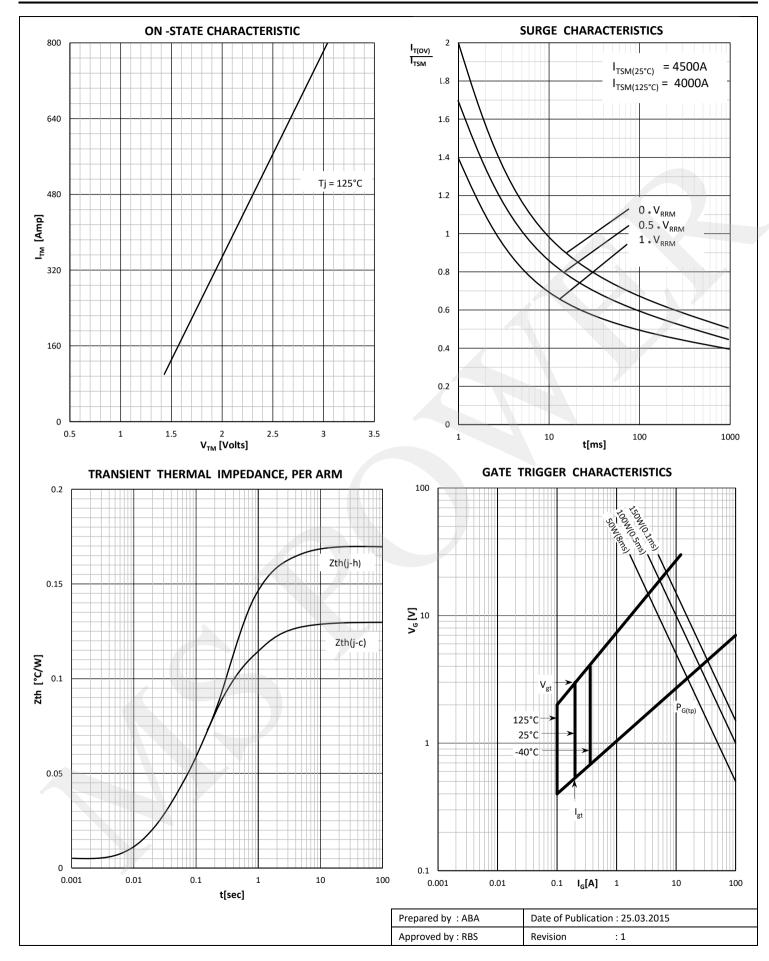
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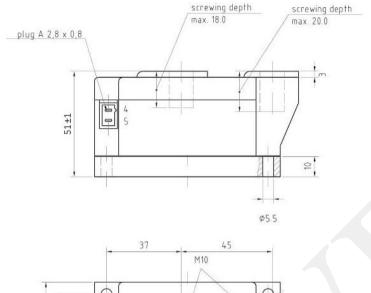
Technical Information

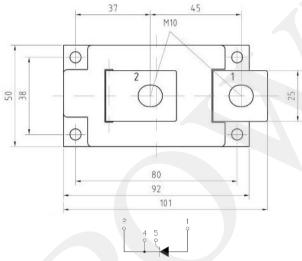
Thyristor Modules

MS TZ150



Outline





Note: All dimensions are in mm Tolerance: ±0.3mm

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