MS TT540





Key Parameters

VDRM / VRRM = 1800V V_{KNV} = 540 m = 16000 A = 0.92 V $= 24 \text{ m} \Omega$ $I_{T(AV)}$ ITSM $V_{T(TO)}$ $= 0.24 \text{m}\Omega$ 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	ΤΤ	540	K	18
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 TT540K18: 1800V VDRM, VRRM, Thyristor-Thyristor Module				

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

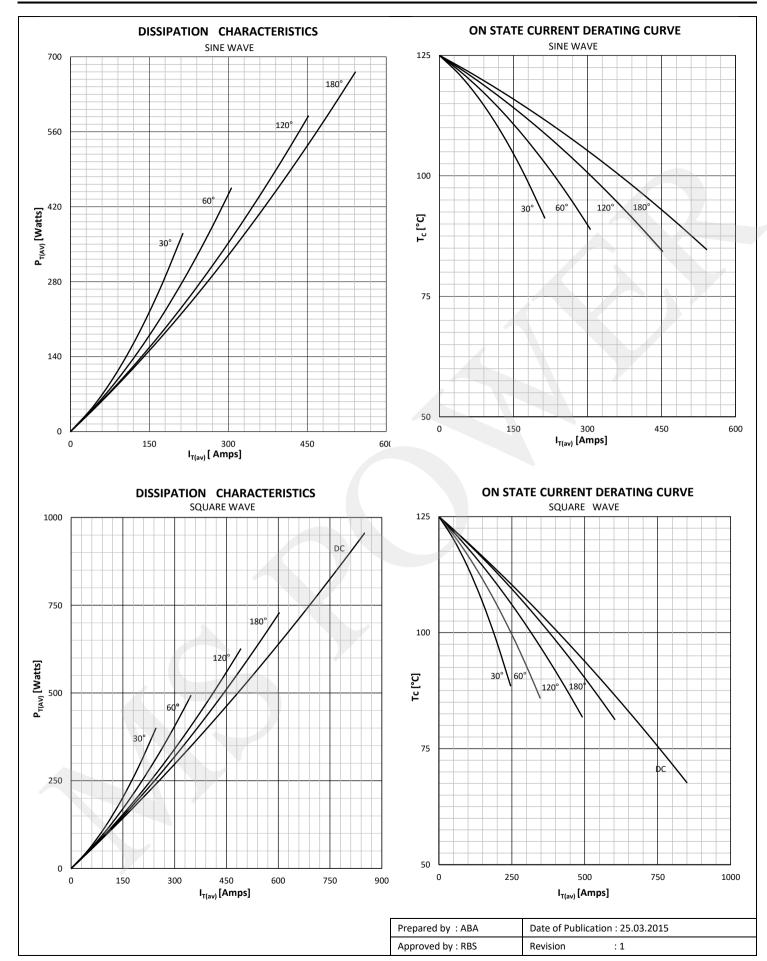
MS TT540



Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		125	300 - 1900	V
V DRM	Repetitive peak off-state voltage		125	200 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	125	100	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	100	mA
CONDU	CTING		1		
I T (AV)	Mean on state current	180° sin ,50 Hz, T _c =85°C		540	Α
I RMS	RMS on-state current			850	Α
		Sine wave, 10 ms	25	16000	Α
I TSM	Surge on-state current	Without reverse voltage	125	15000	A
		0	25	1280 x 10 ³	A²s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	125	1125 x 10 ³	A²s
V т	On-state voltage	On-state current = 1500A	25	1.40	V
V T(TO)	Threshold voltage	On state current = 1500A	125	0.92	V
				7	
rт	On-state slope resistance		125	0.24	mΩ
SWITCH					
di/dt	Critical rate of rise of on-state current		125	100	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\%V_{DRM}$	125	500	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	500	mA
I _L	Latching current	V _D =6V	25	1500	mA
моинті	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.060 0.030	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.069 0.035	°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
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
A	File No.			E505556	
		Prepared by : ABA	Date of Pub	lication : 25.03.201	5
		Approved by : RBS	Revision	: 1	

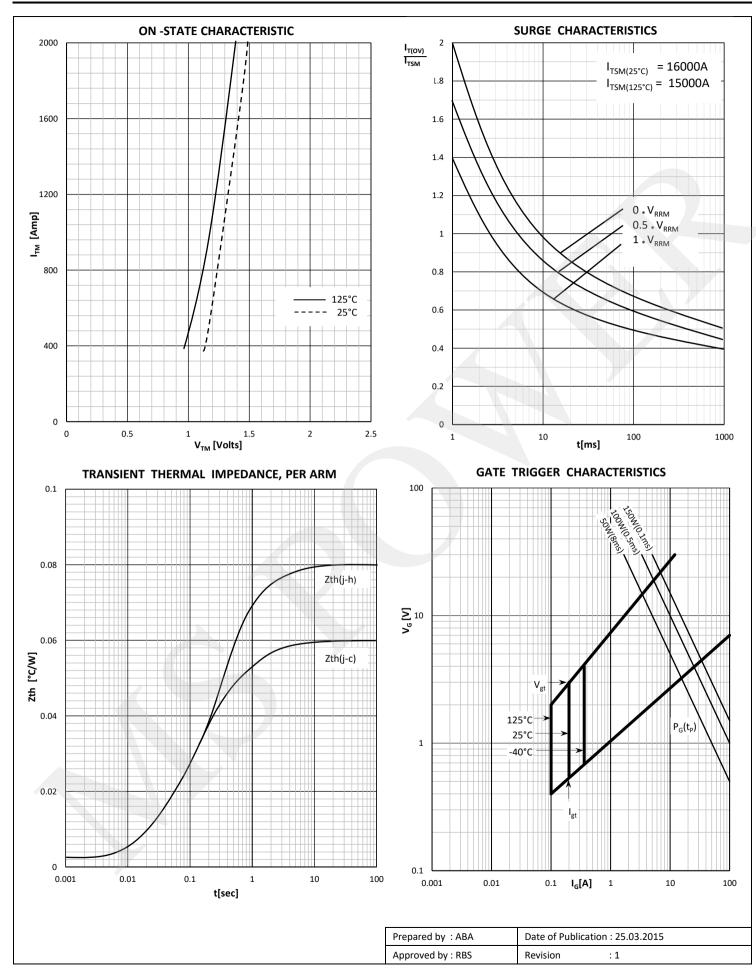
MS TT540





MS TT540

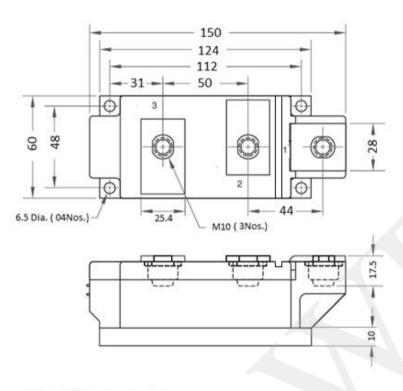




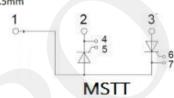
MS TT540



Outline







MS Power GmbH

Mergenthalerallee 79-81 65760 Eschborn, Germany Web: www.mspowergroup.com Mail: info@mspowergroup.de

Sales & Enquiry:

sales@mspowergroup.de
Technical Support:
solution@mspowergroup.de
After sales Service:
service@mspowergroup.de

Phone: +49 (0) 6196/7768 666 Fax: +49 (0) 6196/7757 888



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

MS TT540



Terms & Conditions of usage:

The data contained in this product datasheet is exclusively Intended for technically trained staff. You and your technical departments will have to evaluate the suitability of the product for the intended application and the completeness of the product data with respect to such application. This product datasheet is describing the characteristics of this product for which a warranty is granted. Any such warranty is granted exclusively pursuant the terms and conditions of the supply agreement. There will be no guarantee of any kind for the product and its characteristics. The information in the valid application-and assembly notes of the device must be considered.

Should you require product information in excess of the data given in this product datasheet or which concerns the specific application of our product, please contact the sales office, which is responsible for you (see www.mspowergroup.com). For those that are specifically interested we may provide application notes.

Due to technical requirements our product may contain dangerous substances. For information on the types in question please contact the sales office, which is responsible for you.

Should you intend to use the Product in aviation applications, in health or live endangering or life support applications, please notify. Please note, that for any such applications we urgently recommend

- -to perform joint Risk and Quality Assessments;
- -the conclusion of Quality Agreements;
- -to establish joint measures of an ongoing product survey, and that we may make delivery depended on the realization of any such measures.

If and to the extent necessary, please forward equivalent notices to your customers.

Changes of this product datasheet are reserved.

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