## **MS TT262**





### **Key Parameters**

V<sub>DRM</sub> / V<sub>RRM</sub> = 4400 V= 262A $I_{T(AV)}$ = 6000AITSM  $V_{T(TO)}$ = 1.4 V $= 1.30 \text{m}\Omega$ 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	262	K	44
Fixed code	TT- Thyristor- Thyristor Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V <sub>DRM</sub> /V <sub>RRM</sub>
Order Code MS TT262K44: 4400V VDRM, VRRM, Thyristor-Thyristor Module				

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

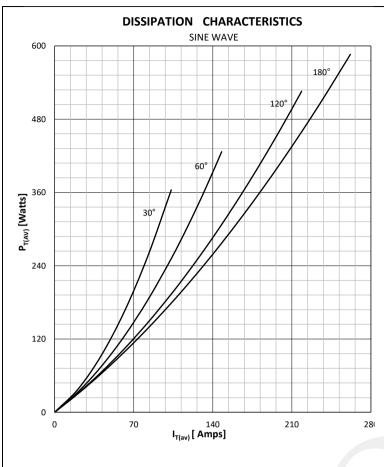
## **MS TT262**

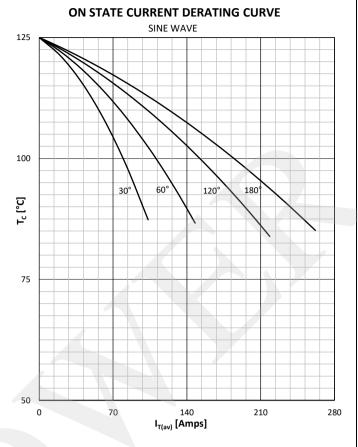


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	3000 - 4400	V
V RSM	Non-repetitive peak reverse voltage		125	3100 - 4500	V
V DRM	Repetitive peak off-state voltage		125	3000 - 4400	V
I RRM	Repetitive peak reverse current	V= V RRM	125	200	mA
I DRM	Repetitive peak off-state current	V= V DRM	125	200	mA
CONDU	CTING				
I T (AV)	Mean on state current	180° sin ,50 Hz, T <sub>c</sub> =85°C		262	Α
I RMS	RMS on-state current			411	А
		Sing ways 10 mg	25	6000	А
I тѕм	Surge on-state current	Sine wave, 10 ms Without reverse voltage	125	5000	Α
		Cina ways 40 mg	25	180 x 10 <sup>3</sup>	A²s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	125	125 x 10 <sup>3</sup>	A²s
Vт	On-state voltage	On-state current = 628A	25	2.30	V
V T(TO)	Threshold voltage	on state surrent = 625/t	125	1.4	
r T	On-state slope resistance		125	1.30	mΩ
			123	1.50	11152
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/ $\mu$ s, $I_{TM}$ =2 $I_{TAV}$ , $V_D$ =67% $V_{DRM}$	125	400	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 <sub>D</sub> =6V	25	250	mA
V <sub>gt</sub>	Gate trigger voltage	V <sub>D</sub> =6V	25	3.0	V
I <sub>H</sub>	Holding current	V <sub>D</sub> =6V, gate open circuit	25	300	mA
ΙL	Latching current	V <sub>D</sub> =6V	25	1500	mA
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm		0.068	°C/W
TV uig-c)	Thermal impodulice, sin 100	per module		0.034 0.078	
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.078	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.02 0.01	°C/W
Т j	Max. junction temperature	per module		125	°C
T stg	Storage temperature			-40 150	°C
V <sub>ISOL</sub>	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
<b>71</b> ®	File No.			E505556	
		Prepared by : ABA	Date of Duk	olication : 25.03.2015	
		i Fleualeu DV : ABA	Date OF PUI	m.auv	,

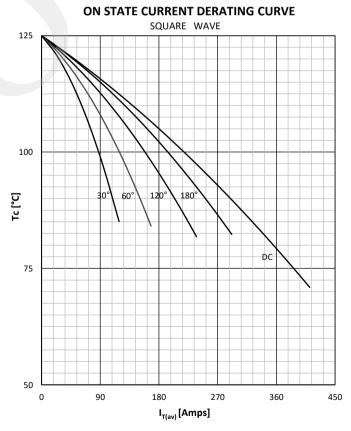
## **MS TT262**







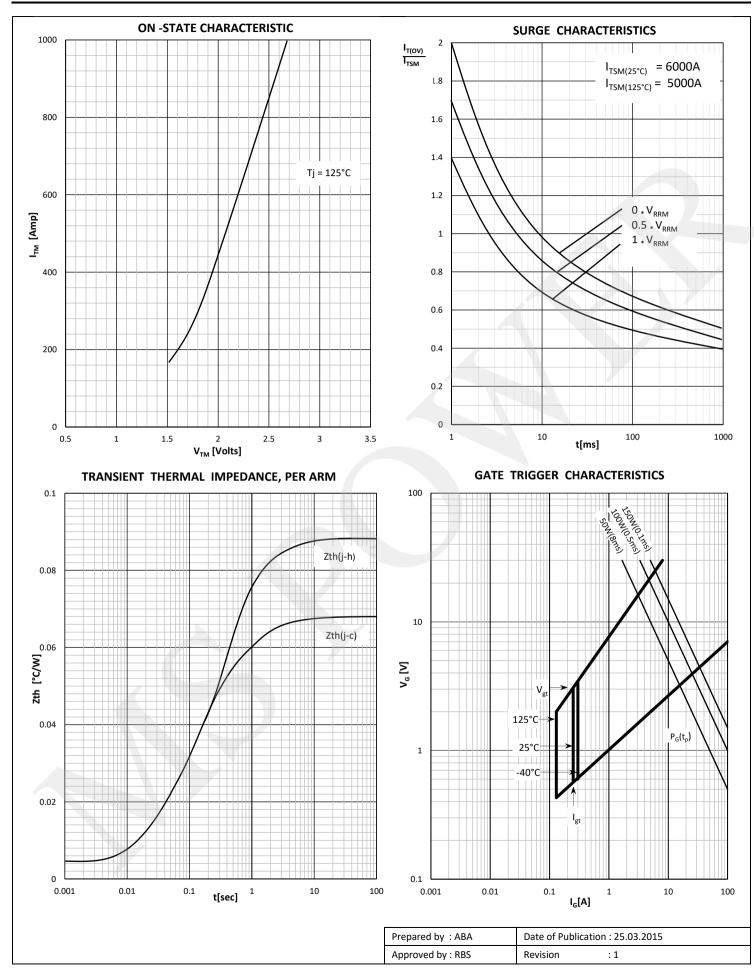
## 



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

## **MS TT262**

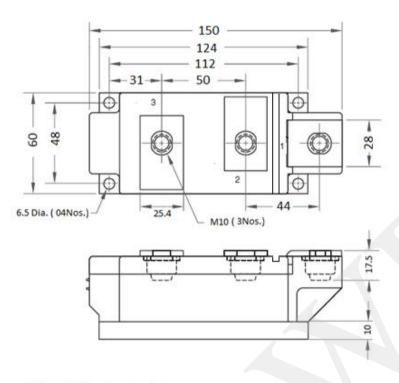




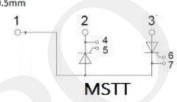
## **MS TT262**



### **Outline**



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



#### **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 TT262**



### 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 <a href="https://www.mspowergroup.com">www.mspowergroup.com</a>). 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