Technical Information Thyristor / Diode Modules

MS TD262





Key Parameters

Vdrm / Vrrm	= 4400V
IT(AV)	= 262A
Тѕм	= 6000A
V _{T(TO)}	= 1.4V
rΤ	= 1.30mΩ

Features

- Full blocking capability over wide temperature rangeHeat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability
- UL Recognized, file no. E505556

- ApplicationsPower SuppliesDC motor control
- **Controlled Rectifiers** .
- AC switch

Ordering Information

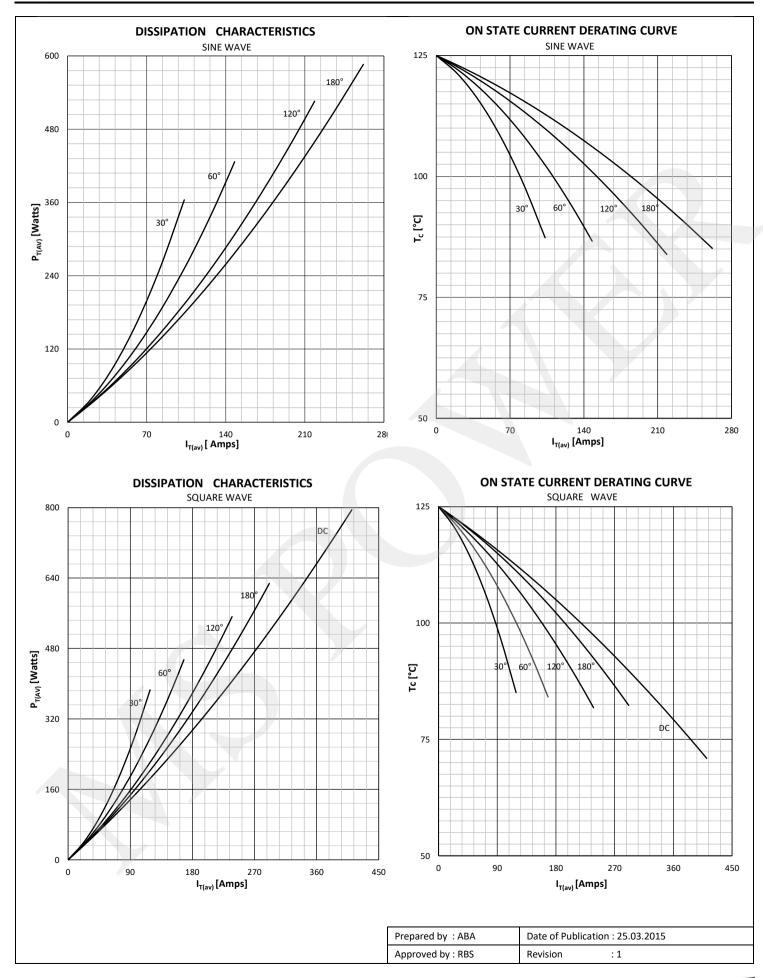
MS	TD	262	К	44		
Fixed code	TD- Thyristor- Diode Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{DRM} /V _{RRM}		
Order Code MS TD262K44 : 4400V V _{DRM} , V _{RRM} , Thyristor-Diode Module						
			Prepared by : ABA Dat	e of Publication : 25.03.2015		
				ision : 1		

Technical Information Thyristor / Diode Modules

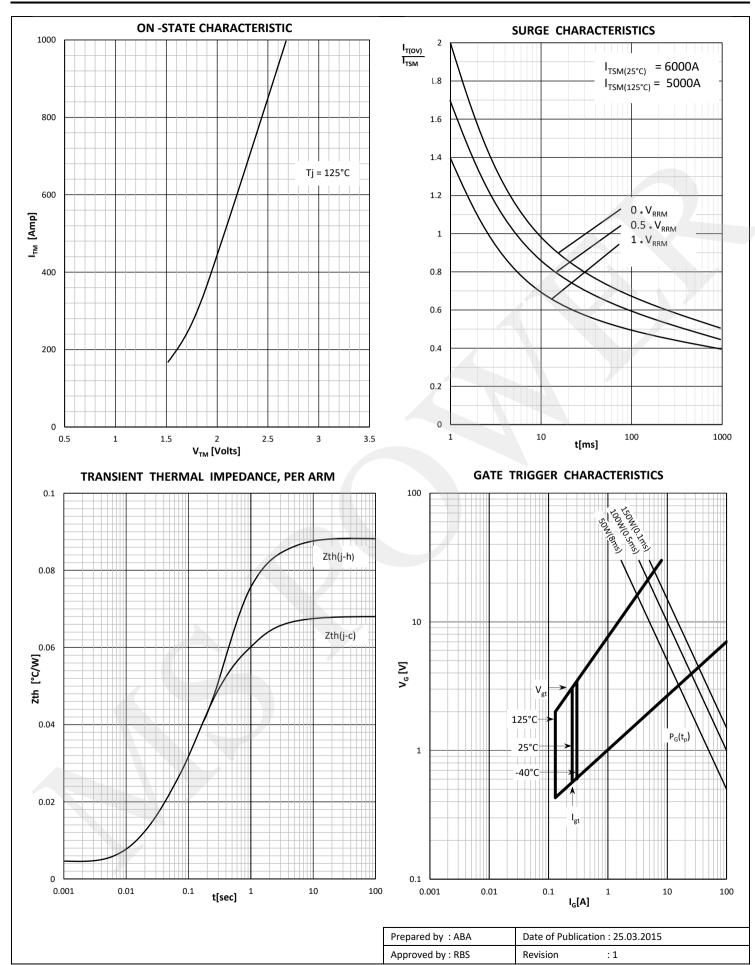


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		125	3000 - 4400	V
V RSM	Non-repetitive peak reverse voltage		125	3100 - 4500	V
V drm	Repetitive peak off-state voltage		125	3000 - 4400	V
I RRM	Repetitive peak reverse current	V= V RRM	125	200	mA
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 _c =85°C		262	А
RMS	RMS on-state current			411	A
		Sine wave, 10 ms	25	6000	А
I TSM Surge on-state current Sine wave, To ms Without reverse voltage		125	5000	А	
		<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>	25	180 x 10 ³	A²s
l² t	l ² t	Sine wave, 10 ms Without reverse voltage	125	125 x 10 ³	A²s
Vт	On-state voltage	On-state current = 628A	25	2.30	V
V τ(το)	Threshold voltage		125	1.4	V
rт	On-state slope resistance		125	1.30	mΩ
SWITCH		Non-repetitive f=1Hz, I _{GM} =2.0A,			
di/dt	Critical rate of rise of on-state current	$di_G/dt > 1.0A/\mu s, I_{TM} = 2I_{TAV}, V_D = 67\% V_{DRM}$	125	400	A/µs
dv/dt	Critical rate of rise of off-state voltage	$V_{DR} = 67\% V_{DRM}$	125	1000	V/µs
GATE					
l _{gt}	Gate trigger current	V _D =6V	25	250	mA
V _{gt}	Gate trigger voltage	V _D =6V	25	3.0	V
Iн	Holding current	$V_D=6V$, gate open circuit	25	300	mA
ΙL	Latching current	V _D =6V	25	1500	mA
MOUNT	ING				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.068 0.034	°C/W
R th(j-c)	Thermal impedance, rec120°	Junction to case, per arm per module		0.078 0.039	°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
VISOL	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
91 *	File No.			E505556	
			1		
		Prepared by : ABA	Date of Pul	olication : 25.03.2015	;
		Approved by : RBS	Revision	:1	



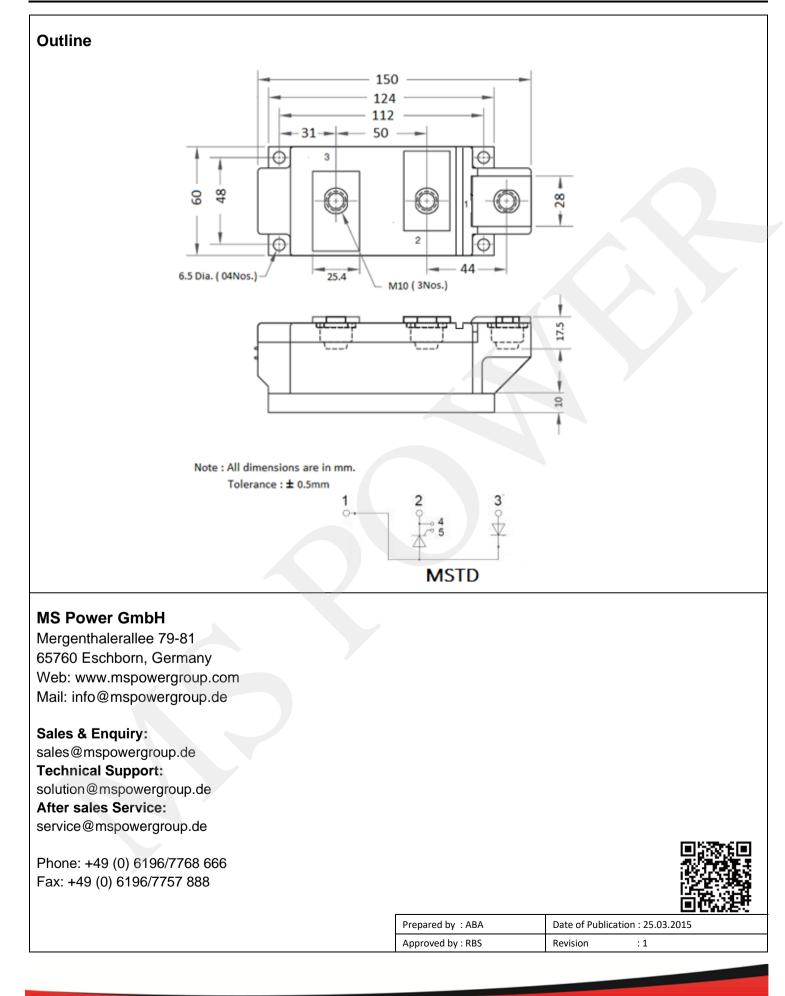






Technical Information Thyristor / Diode Modules





MS TD262



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 <u>www.mspowergroup.com</u>). 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	