MS DD500





Key Parameters

Vrrm	= 1800V
IF(AV)	= 500A
IFSM	= 15000A
V _{F(TO)}	= 0.84V
ΓF	= 0.24mΩ

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

ApplicationsPower Supplies

- Uncontrolled Rectifiers
- Field supply for DC motors •
- Battery Chargers
- UPS

Ordering Information

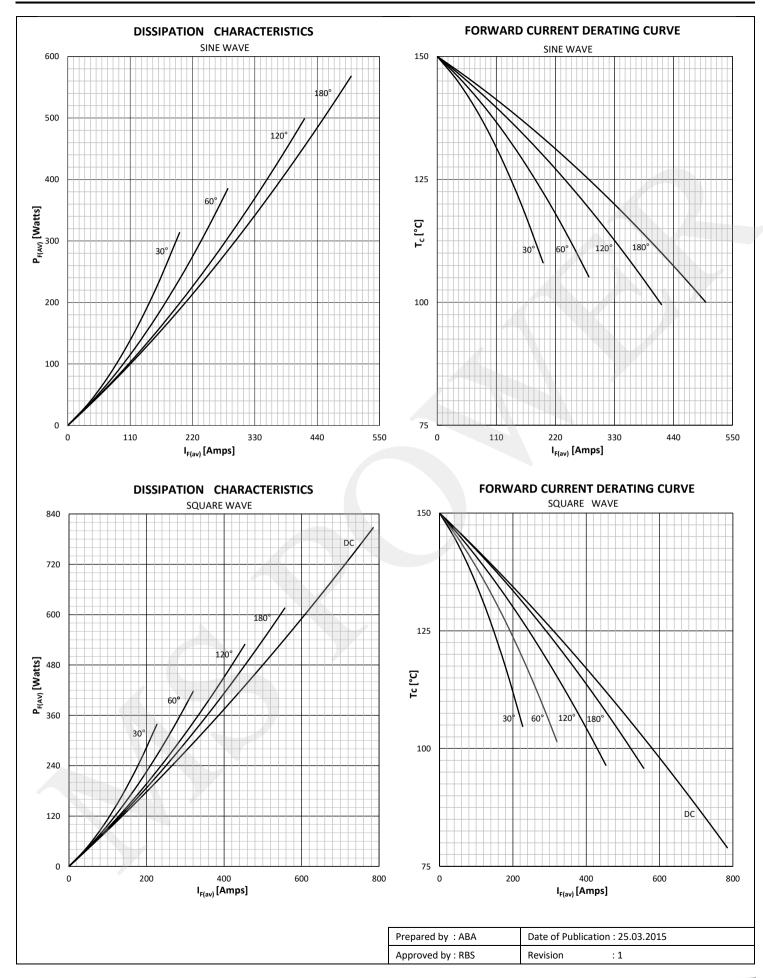
MS	DD	500	к	18
Fixed code	DD- Diode-Diode Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS DD500K18 : 1800V VRRM, Diode-Diode Module				

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

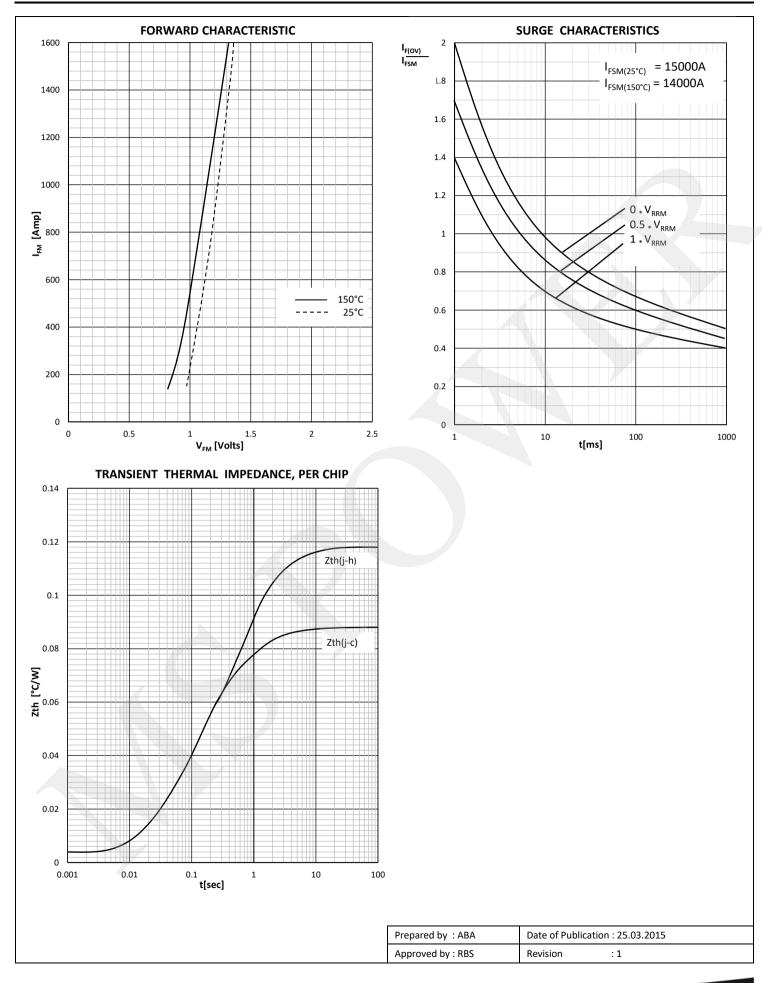


Symbol	Characteristic		Conditions	Тј [°С]	Value	Unit
BLOCK	NG					
V RRM	Repetitive peak reverse voltage			150	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage			150	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM		150	40	mA
CONDU	CTING					
IF(AV)	Mean forward current	180° sin ,50 H	z, T _c =100°C		500	А
I FRMS	RMS current				785	А
		Sine wave, 10	ms	25	15000	А
I FSM	Surge forward current	Without revers		150	14000	A
		Sine wave, 10	mc	25	1125 x 10 ³	A²s
l² t	l ² t	Without revers		150	980 x 10 ³	A²s
VF	Forward voltage	On-state curre	ent = 1500A	25	1.35	V
V F(TO)	Threshold voltage			150	0.84	V
r _F	Forward slope resistance			150	0.24	mΩ
MOUNT						
R th(j-c)	Thermal impedance, sin 180°	Junction to cas	se, per arm per module		0.088 0.044	°C/W
R th(c-h)	Thermal impedance	Case to heatsi	ink, per arm per module		0.030 0.015	°C/W
Тј	Max. junction temperature				150	°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 ± 10%	Nm
W	Weight (Approx.)				1450	gm
A1	File No.				E505556	
			Prepared by : ABA	Date of Pub	lication : 25.03.201	5
			Approved by : RBS	Revision	:1	

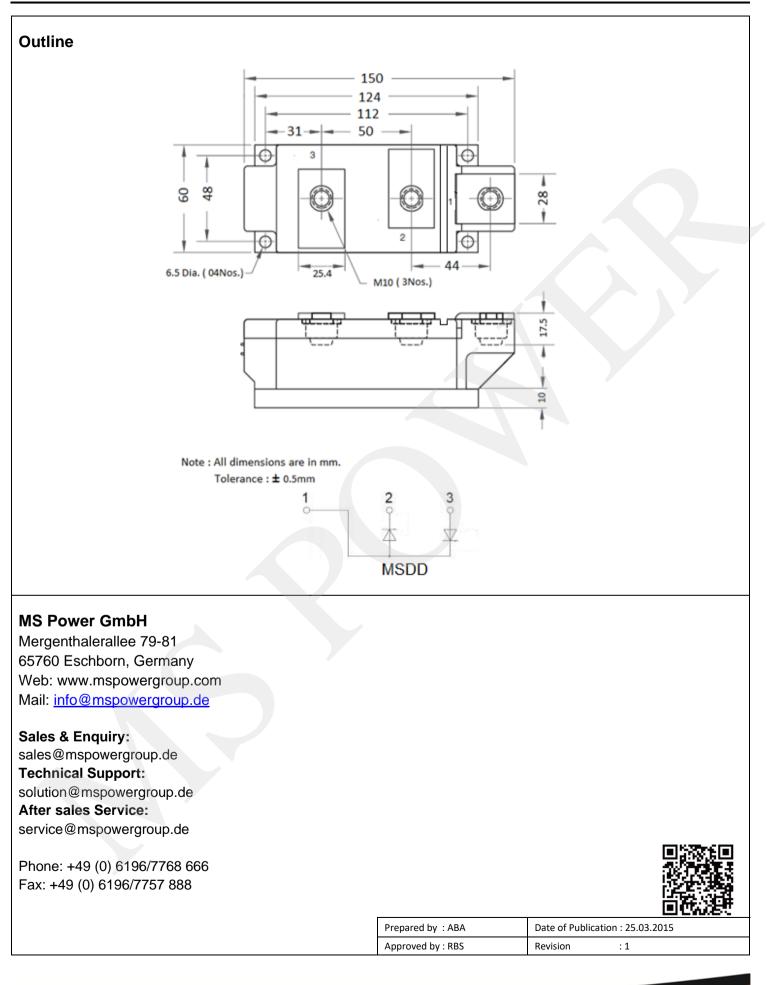












MS DD500



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