MS DD140





Key Parameters

 V_{RRM} = 1800V= 140AI_{F(AV)} =4000A**I**FSM $V_{F(TO)}$ = 0.90 V $= 1.5 m\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability

Applications Power Supplies

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

Ordering Information

MS	DD	140		S	ХX	KK
Fixed code	DD- Diode- Diode Module	Current Code		echnology Bond Technology	Voltage Code Code X 100 = V _{RRM}	None - Standard connection AA - Common Anode KK - Common Cathode
Order Code MS DD140S18KK: 1800V V _{RRM} , Common Cathode, Diode-Diode Module						

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

MS DD140

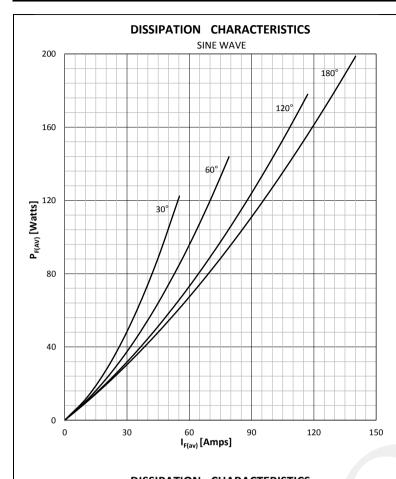


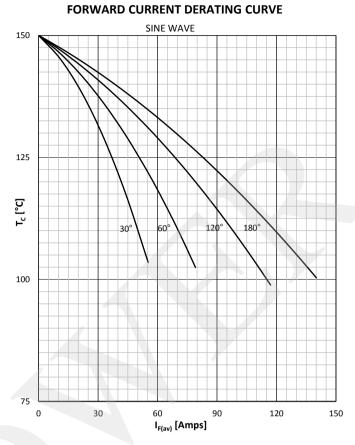
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		150	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM	150	20	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C		140	А
I FRMS	RMS current			220	А
	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	4000	Α
l fsm			150	3200	А
		Sine wave, 10 ms Without reverse voltage	25	80000	A ² s
l² t	l² t		150	51200	A ² s
VF	Forward voltage	On-state current = 300A	25	1.45	V
V F(TO)	Threshold voltage		150	0.90	V
r _F	Forward slope resistance		150	1.5	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.25 0.13	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.10 0.05	°C/W
Тj	Max. junction temperature			150	°C
T stg	Storage temperature			-40 125	°C
V _{ISOL}	Insulation test voltage, RMS	F=50Hz, 1min		2.5	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			5 ± 15%	Nm
W	Weight (Approx.)			165	gm

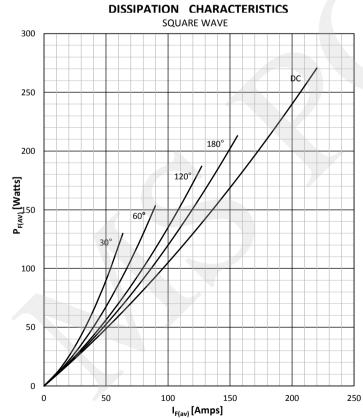
Prepared by : ABA	Date of Publication : 25.03.2015	
Approved by : RBS	Revision : 0	

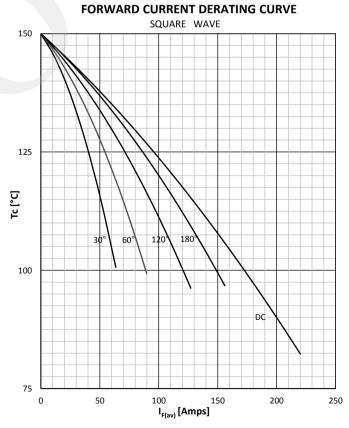
MS DD140







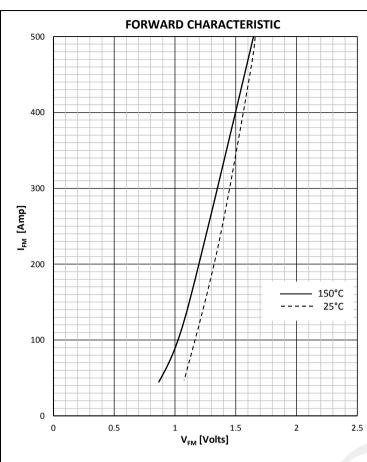


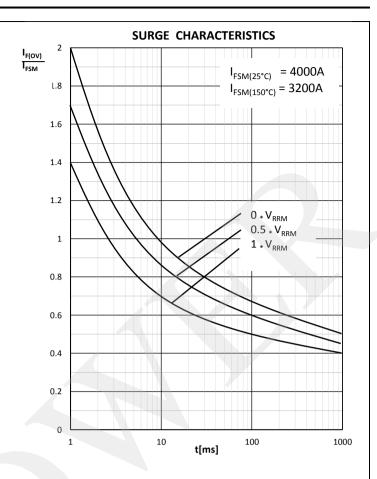


Prepared by : ABA	Date of Publication : 25.03.2015		
Approved by : RBS	Revision : 0		

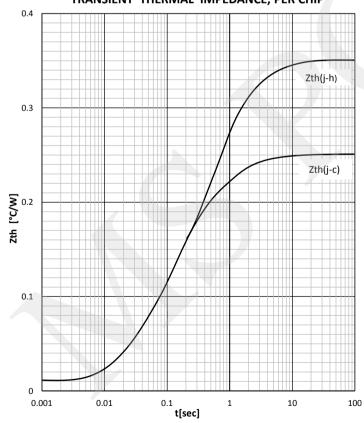
MS DD140







TRANSIENT THERMAL IMPEDANCE, PER CHIP

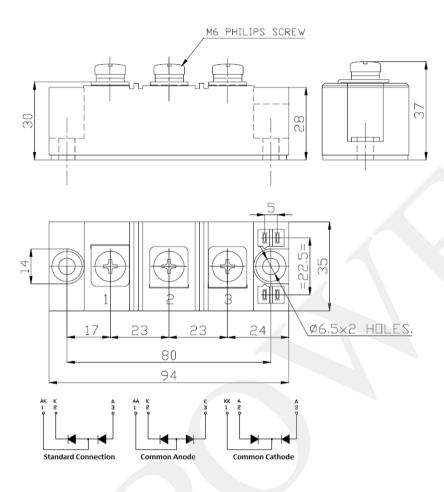


Prepared by : ABA	Date of Publication : 25.03.2015		
Approved by : RBS	Revision	: 0	

MS DD140



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 : 0

MS DD140



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 : 0		