MS D422





Key Parameters

····	
Vrrm	= 3600V
F(AV)	= 422A
IFSM	= 13000A
V _{F(TO)}	= 0.90V
ΓF	= 0.39mΩ

Features

- Full blocking capability over wide temperature range
- Pressure contacts technology for high reliability

- ApplicationsPower SuppliesUncontrolled Rectifiers
- **Traction Rectifiers**
- Induction Heating / Melting

Ordering Information

MS D	422	N	ХХ	F	к	
Rectifier Diode	Current code	Polarity R= Base Anode N= Base Cathode	Voltage Code Code X 100 = V _{RRM}	F = Flat Base	Technology K = Pressure Contact Technology	
Order Code	Order Code MS D422N36FK : 3600V VRRM, Flat base, Diode with base Cathode					
			Prep	ared by : ABA	Date of Publication : 25.03.2015	
			Appr	oved by : RBS	Revision : 0	

MS D422

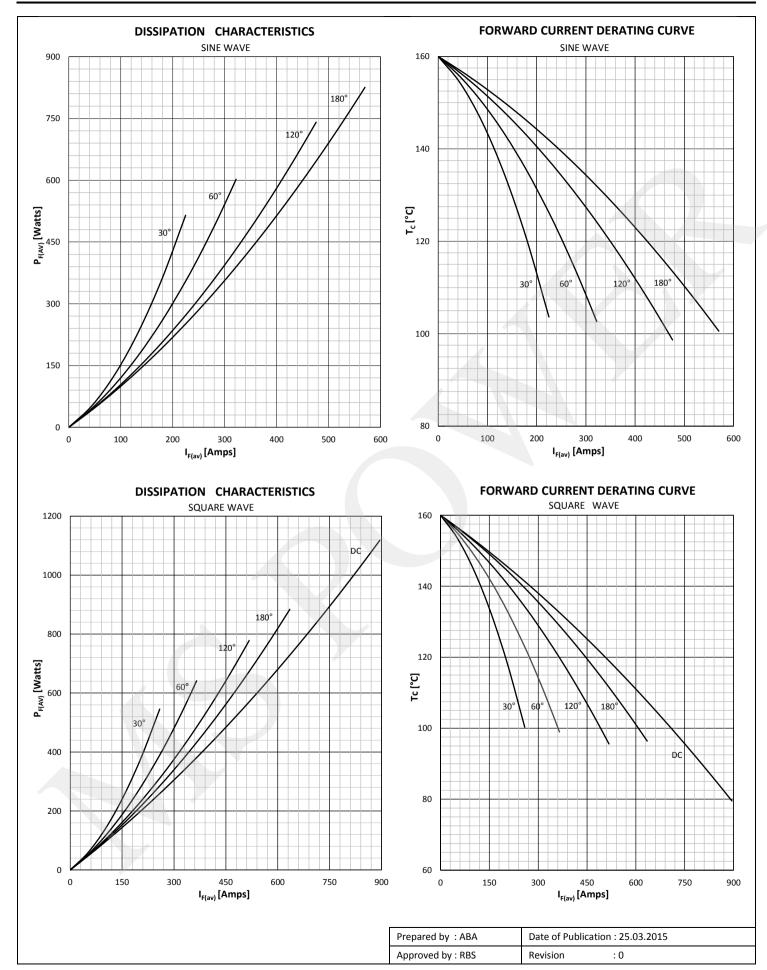


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		160	3000 - 3600	V
V RSM	Non-repetitive peak reverse voltage		160	3100 - 3700	V
I RRM	Repetitive peak reverse current	V= V RRM	160	40	mA
CONDU	CTING			· ·	
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =120°C 180° sin ,50 Hz, T _c =100°C		422 570	А
I FRMS	RMS current	T _c =100°C		895	А
1	SM Surge forward current Sine wave, 10 ms Without reverse voltage	Sine wave, 10 ms	25	13000	Α
I FSM			160	12000	Α
		Sine wave, 10 ms Without reverse voltage	25	845 x 10 ³	A²s
l² t	l ² t		160	720 x 10 ³	A²s
V f	Forward voltage	On-state current = 1800A	160	1.62	V
V F(TO)	Threshold voltage		160	0.90	V
r _F	Forward slope resistance		160	0.39	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.072	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.02	°C/W
Тj	Max. junction temperature			160	°C
T stg	Storage temperature			-40 160	°C
М	Mounting torque			16.6 - 20.7	NM
W	Weight (Approx.)			900	gm

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

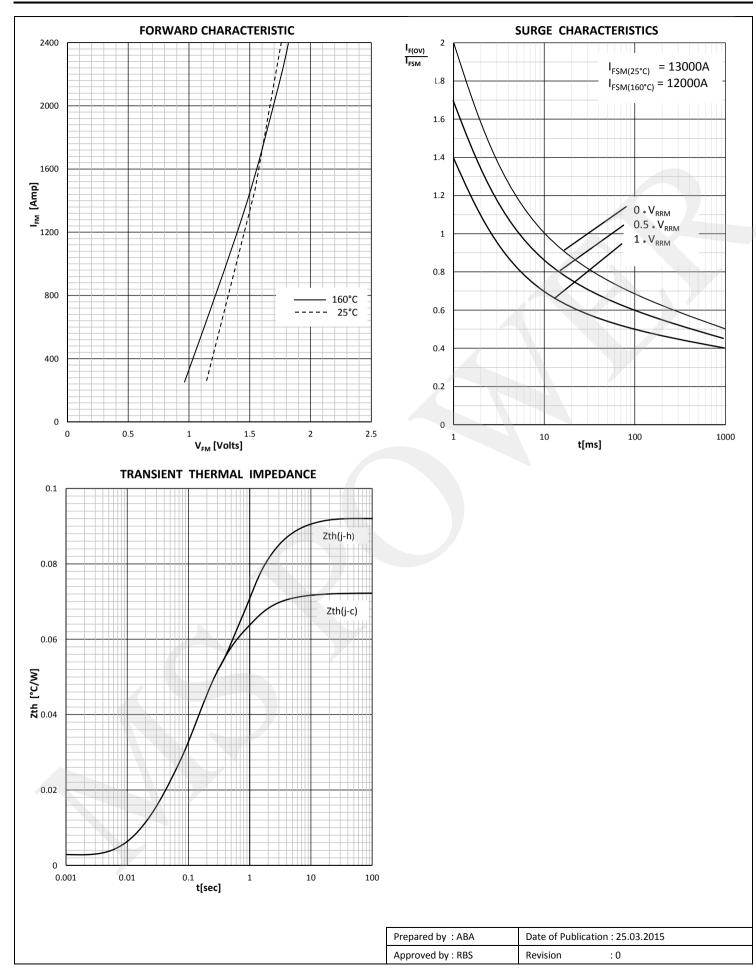
MS D422





MS D422





Outline 26 × 4.8THK. 4 ထ္ Ø11 250±10 R 🗍 125±5 Ν <u>vi</u> 46 SQ.

61 MAX. SQ.

MS D422

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		

4 HOLES Ø8.5



MS D422



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 : 0	