



Key Parameters

V_{RRM}	= 2600V
$I_{F(AV)}$	= 914A
I_{FSM}	= 10.5kA
$V_{F(TO)}$	= 1.768V
r_F	= 0.653mΩ

Features

- Full blocking capability over wide temperature range
- Fast recovery characteristics
- Hermetically sealed ceramic package
- High case non-rupture current

Applications

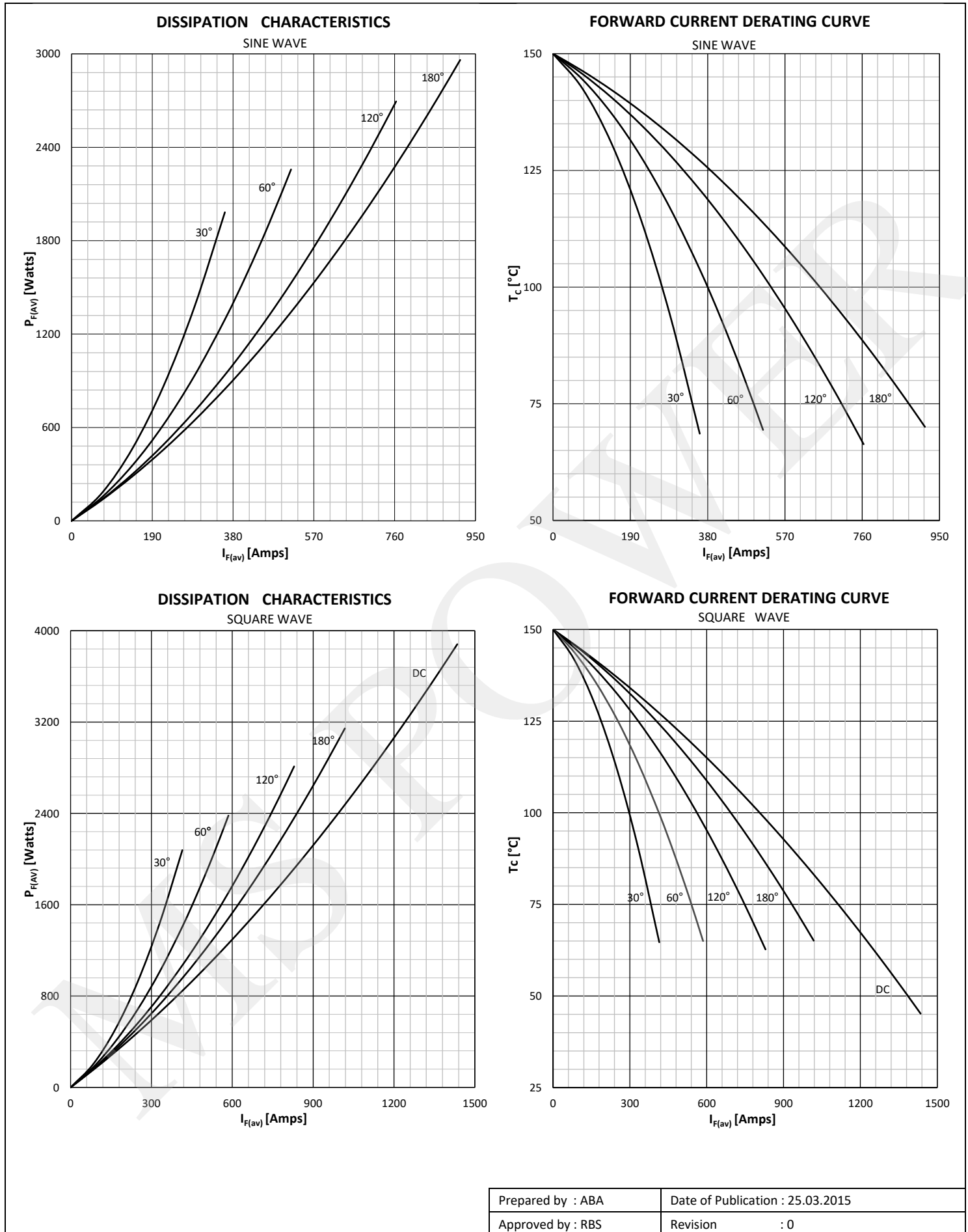
- Power Supplies
- Uncontrolled Rectifiers
- Freewheeling / Snubber
- Induction Heating / Melting

Ordering Information

MS DF	914	C	XX
Fast Recovery Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V_{RRM}
Order Code MS DF914C26 : 2600V V_{RRM} , Fast recovery capsule Diode			

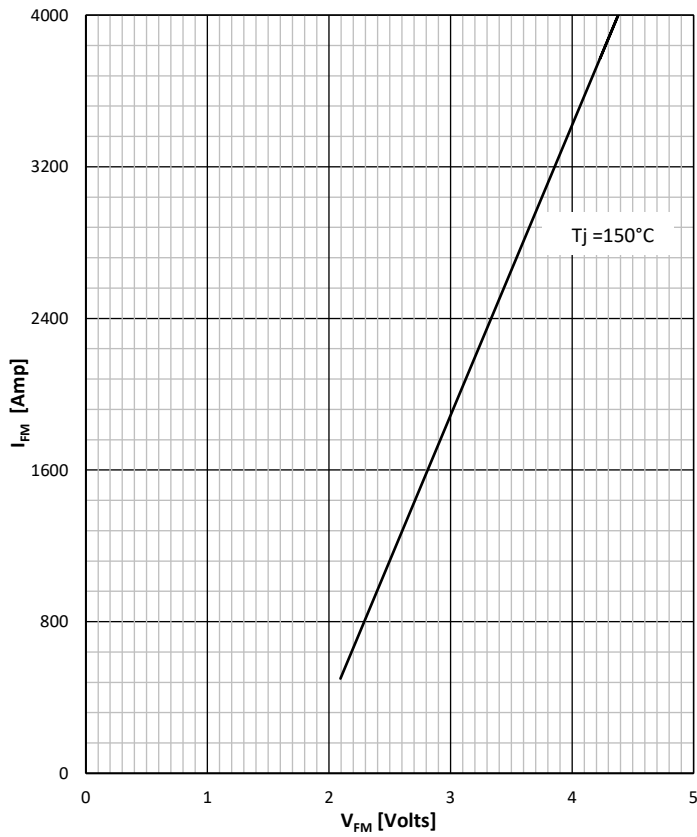
Prepared by : ABA	Date of Publication : 25.03.2015
Approved by : RBS	Revision : 0

Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		150	2200 - 2600	V
V _{RSM}	Non-repetitive peak reverse voltage		150	2300 - 2700	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	150	50	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin, 50 Hz, T _c =70°C, double side cooled		914	A
I _{FRMS}	RMS current	T _c =70°C, double side cooled		1435	A
I _{FSM}	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	10500	A
			150	9400	A
I ² t	I ² t	Sine wave, 10 ms Without reverse voltage	25	551 x 10 ³	A ² s
			150	442 x 10 ³	A ² s
V _F	Forward voltage	On-state current = 1800A	150	3.0	V
V _{F(TO)}	Threshold voltage		150	1.768	V
r _F	Forward slope resistance		150	0.653	mΩ
SWITCHING					
Q _{rr}	Recovered Charge (typical)	I _{FM} =1000A, -di _F /dt = 60A/μs, V _r = 50V, t _p =1000 μs, 50% chord.	150	300	μC
I _{rm}	Reverse recovery current (typical)		150	110	A
T _{rr}	Reverse recovery time, 50% chord (typical)		150	3.2	μs
MOUNTING					
R _{th(j-c)}	Thermal impedance, sin 180°	Junction to case, double side cooled		0.027	°C/W
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		0.005	°C/W
T _j	Max. junction temperature			150	°C
T _{stg}	Storage temperature			-40 150	°C
M	Clamping force			10 - 20	NM
W	Weight (Approx.)			350	gm
			Prepared by : ABA	Date of Publication : 25.03.2015	
			Approved by : RBS	Revision : 0	

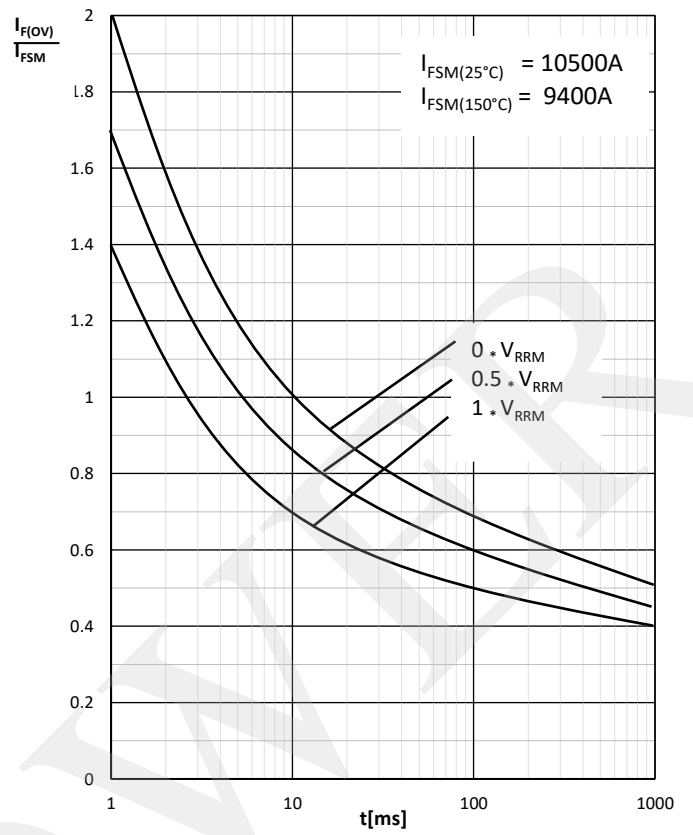


Prepared by : ABA	Date of Publication : 25.03.2015
Approved by : RBS	Revision : 0

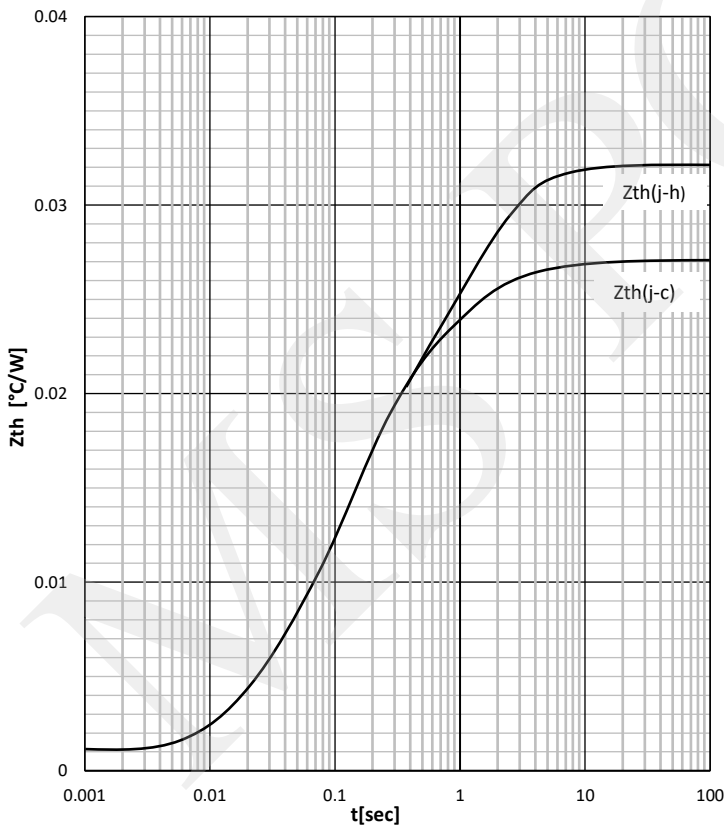
FORWARD CHARACTERISTIC



SURGE CHARACTERISTICS



TRANSIENT THERMAL IMPEDANCE



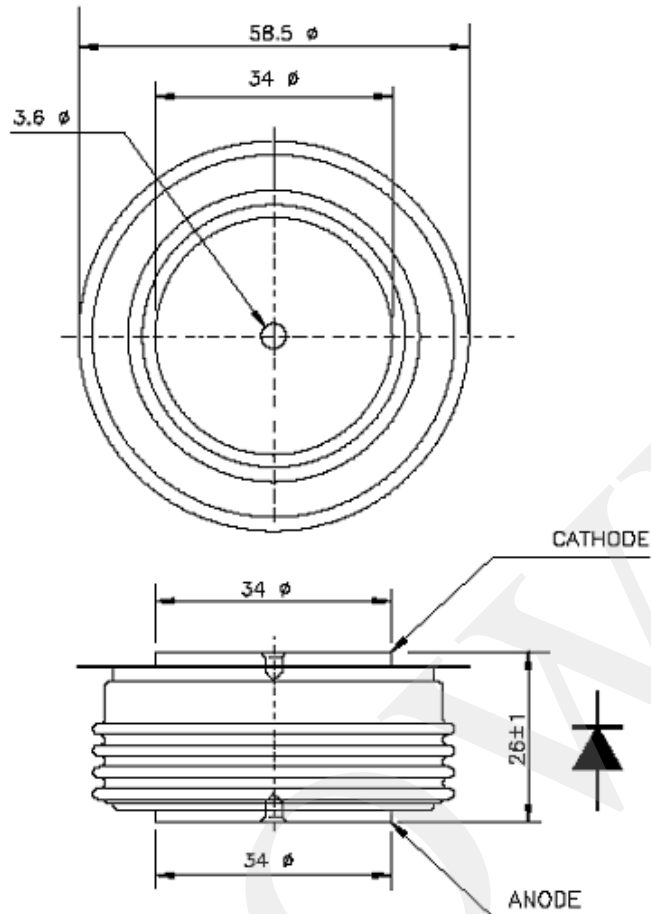
Prepared by : ABA

Date of Publication : 25.03.2015

Approved by : RBS

Revision : 0

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

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