MS D3950





Features

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

- ApplicationsTraction Rectifiers
- Uncontrolled Rectifiers
- Welding
- Induction Heating / Melting

Ordering Information

MS D	3950	C	XX	
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}	
Order Code MS D3950C26 : 2600V VRRM, Capsule Diode				

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



= 2600V
= 3950A
= 31000A
= 0.912V
= 0.0885mΩ

MS D3950

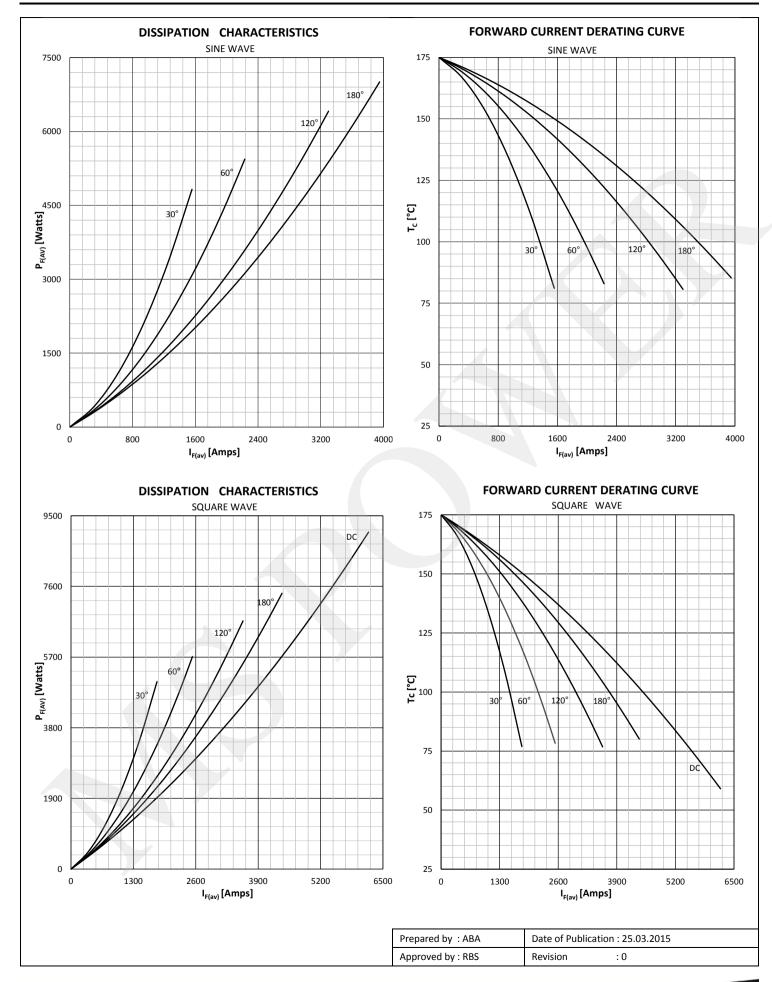


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		175	1800 - 2600	V
V RSM	Non-repetitive peak reverse voltage		175	1900 - 2700	V
I RRM	Repetitive peak reverse current	V= V RRM	175	75	mA
CONDUC	CTING				
I F (AV)	Mean forward current	180° sin,50 Hz, T _c = 85°C, double side cooled 180° sin,50 Hz, T _c =115°C, double side cooled		3950 3000	А
I FRMS	RMS current			6201	А
I FSM	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	31000	Α
			175	28600	А
10.1		Sine wave, 10 ms	25	4805 x 10 ³	A²s
l² t	I ² t Without reverse voltage		175	4090 x 10 ³	A²s
VF	Forward voltage	On-state current = 1500A	25	1.10	V
V F(TO)	Threshold voltage		175	0.912	V
r _F	Forward slope resistance		175	0.0885	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, DC	Junction to case, double side cooled		0.0128	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.006	°C/W
Тj	Max. junction temperature			175	°C
T stg	Storage temperature			-40 175	°C
М	Clamping force			24 - 26	KN
W	Weight (Approx.)			300	gm

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

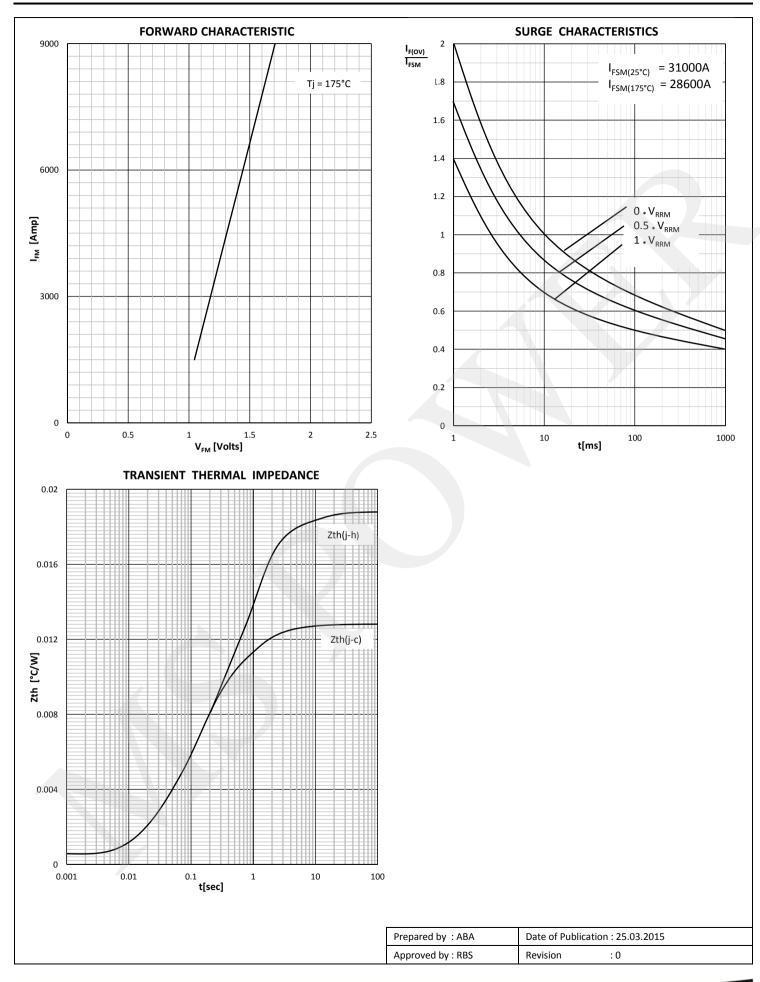
MS D3950





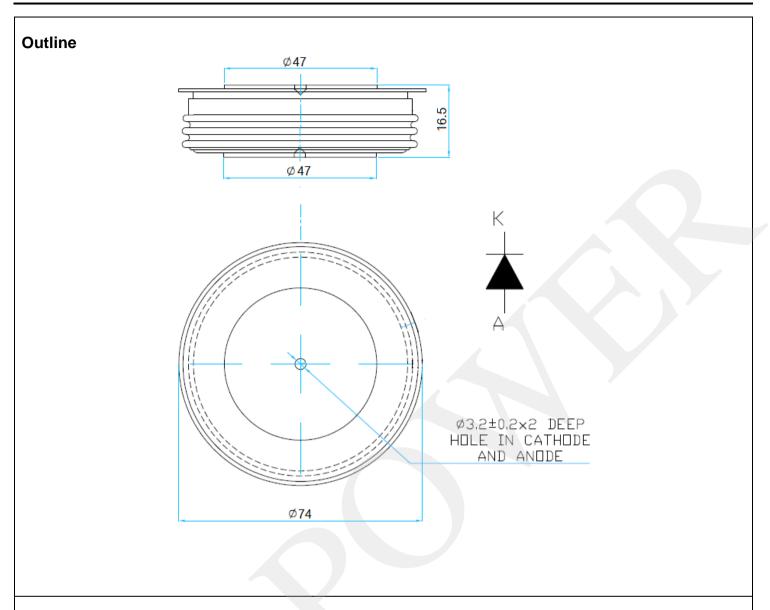
MS D3950





MS D3950





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 D3950



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