MS DW10500





Key Parameters

 $\begin{array}{lll} V_{RRM} & = 400 V \\ I_{F(AV)} & = 10500 A \\ I_{FSM} & = 75000 A \\ V_{F(TO)} & = 0.81 V \\ r_{F} & = 0.026 m \Omega \end{array}$

Features

- Full blocking capability over wide temperature range
- Very low thermal resistance
- High Forward current capability
- Very low threshold voltage and slope resistance

Applications

- Uncontrolled Rectifiers
- Welding

Ordering Information

MS DW	10500	С	хх
Welding Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS DW	10500C04 : 400V	V V _{RRM} , Capsule Welding Diode	7

Prepared by : ABA	Date of Publicatio	n : 25.03.2015
Approved by : RBS	Revision	: 1

Technical Information Welding Diodes

MS DW10500



Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
вьоскі	NG				
V RRM	Repetitive peak reverse voltage		175	200 - 400	٧
V RSM	Non-repetitive peak reverse voltage		175	200 - 400	V
I RRM	Repetitive peak reverse current	V= V RRM	175	50	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin,50 Hz, T _c =85°C , double side cooled		10500	Α
I FRMS	RMS current			16485	А
1	0	ge forward current Sine wave, 10 ms Without reverse voltage	25	75000	Α
I FSM	Surge forward current		175	70000	А
10.1	10.	Sine wave, 10 ms	25	28125 x 10 ³	A ² s
l² t	2 t	Without reverse voltage	175	24500 x 10 ³	A ² s
VF	Forward voltage	On-state current = 8000A	25	0.92 - 1.05	٧
V F(TO)	Threshold voltage		175	0.81	٧
r _F	Forward slope resistance		175	0.026	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.0058	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.0025	°C/W
Тj	Max. junction temperature			175	°C
T stg	Storage temperature			-40 175	°C
М	Clamping force			40 - 50	KN
W	Weight (Approx.)			110	gm

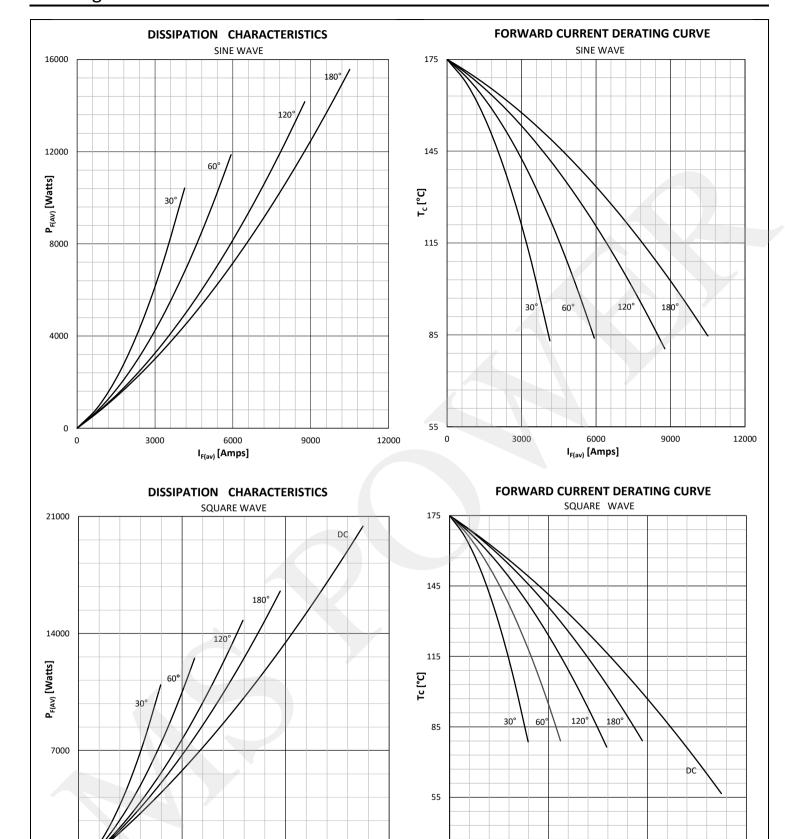
Prepared by : ABA	Date of Publication : 25.03.2015
Approved by : RBS	Revision : 1

Technical Information Welding Diodes

I_{F(av)} [Amps]

MS DW10500





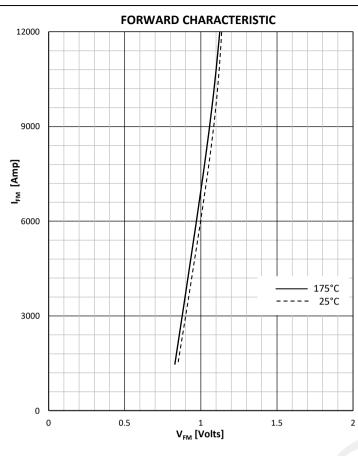
Prepared by : ABA	Date of Publication: 25.03.2015
Approved by : RBS	Revision : 1

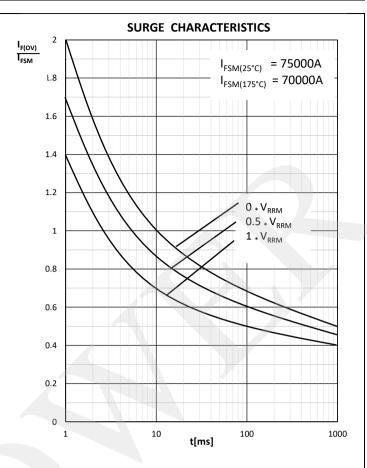
I_{F(av)} [Amps]

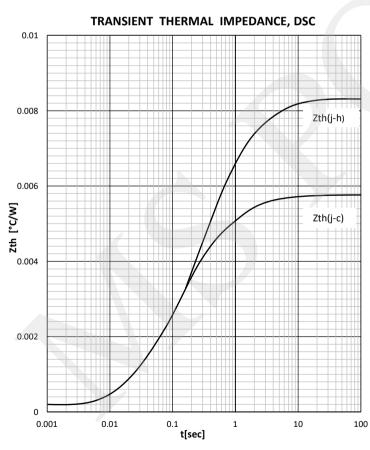
Technical Information Welding Diodes

MS DW10500







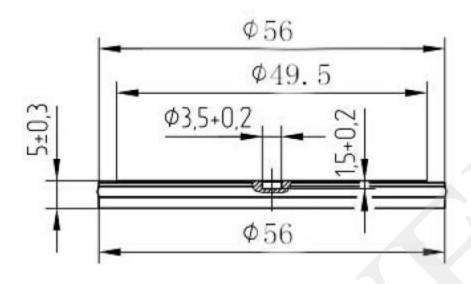


Prepared by : ABA	Date of Publicatio	n : 25.03.2015
Approved by : RBS	Revision	:1

MS DW10500



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 : 1

Technical Information Welding Diodes

MS DW10500



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 : 1