MDS100





Key Parameters

 V_{RRM} = 1600V $I_{D(AV)}$ = 110AI_{FSM} = 1150A= 0.85 VV_{F(TO)} $= 5.0 \text{m}\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Heat transfer through isolated metal base plate
- Hard soldered joints for high reliability

Applications ■ Power Supplies

- **Uncontrolled Rectifiers**
- Field supply for DC motors

Ordering Information

MDS	100	- X X
Three Phase Diode bridge rectifier	Current Code	Voltage Code Code X 100 = V _{RRM}
Order Code MDS100-16: 1600V VRRM, Three Phase Diode bridge rectifier		

Prepared by : ABA	Date of Publication	n : 15.07.2015
Approved by : RBS	Revision	: 0

Technical Information

Three Phase Diode Bridge Rectifier

MDS100



Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		130	800 - 1600	V
V RSM	Non-repetitive peak reverse voltage		130	900 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	130	5	mA
CONDU	CTING				
I D (AV)	DC output current	T _c =85°C		110	Α
1	0	Sine wave, 10 ms	25	1150	А
I FSM	Surge forward current	Without reverse voltage	130	1000	Α
		Sine wave, 10 ms	25	6612	A ² s
l² t	l² t	Without reverse voltage	130	5000	A²s
VF	Forward voltage	On-state current = 100A	25	1.30	V
V F(TO)	Threshold voltage		130	0.85	V
r _F	Forward slope resistance		130	5.0	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per bridge		0.85 0.14	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per bridge		0.05	°C/W
Тj	Max. junction temperature			130	°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			4 ± 15%	Nm
W	Weight (Approx.)			165	gm

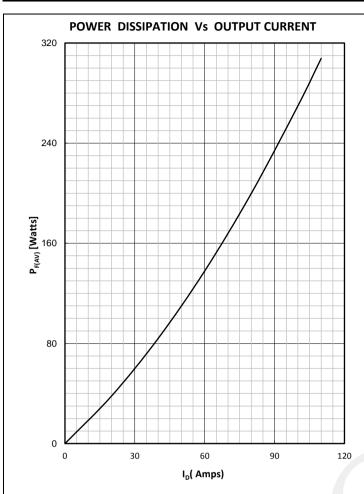
Prepared by : ABA	Date of Publication : 15.07.2015
Approved by : RBS	Revision : 0

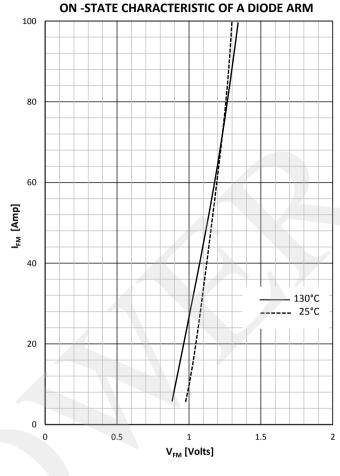
Technical Information

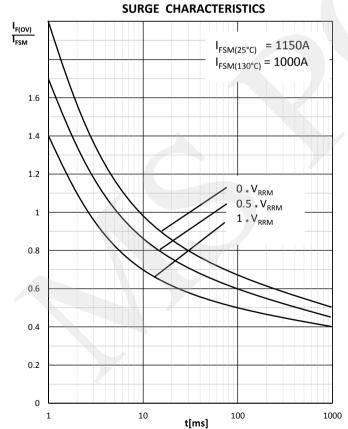
Three Phase Diode Bridge Rectifier

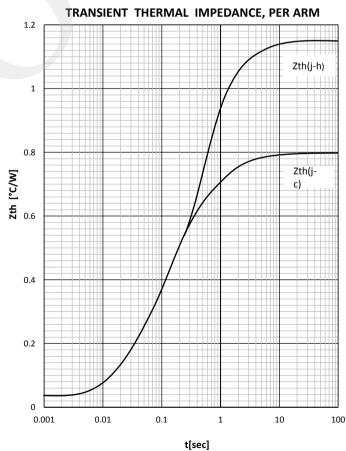
MDS100









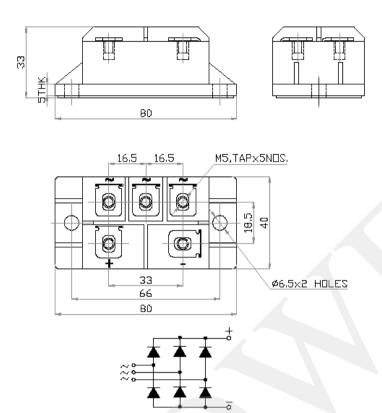


Prepared by : ABA	Date of Publication : 15.07.2015	
Approved by : RBS	Revision	: 0

MDS100



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 : 15.07.2015
Approved by : RBS	Revision : 0

Technical Information

Three Phase Diode Bridge Rectifier

MDS100



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 : 15.07.2015
Approved by : RBS	Revision : 0