Technical Information Power Rectifier Diodes

MS D72





Features

- Full blocking capability over wide temperature range
- Hermetic metal case with glass insulator .
- Threaded stud

Key Parameters

VRRM	= 16000
F(AV)	= 70A
IFSM	= 1200A
V _{F(TO)}	= 0.77V
ΓF	= 2.0mΩ

- ApplicationsPower SuppliesUncontrolled Rectifiers
- Battery Chargers

Ordering Information

MS D	72	N	ХХ	U	В
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V _{RRM}	Stud Threads U = 1/4" UNF	Technology B = Solder Bond Technology
Order Code MS D72N16UB : 1600V V _{RRM} , UNF Stud, Diode with stud Cathode					

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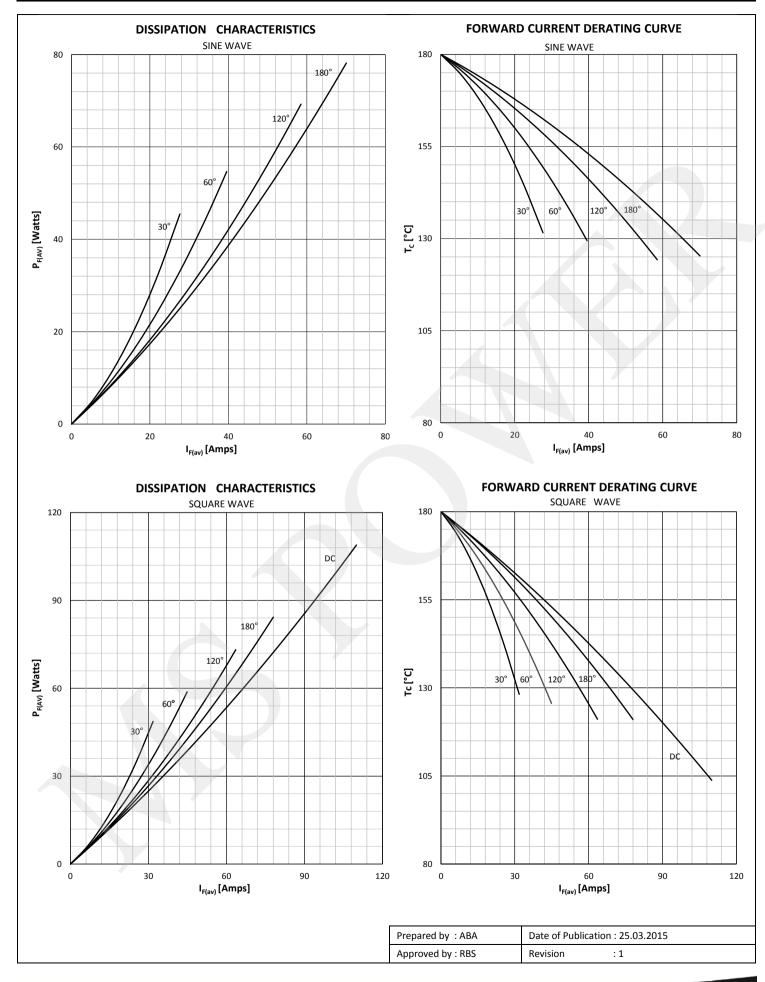
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Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	800 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	900 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	25	300	μA
I RRM	Repetitive peak reverse current	V= V RRM	180	10	mA
CONDUC	CTING	·			
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =125°C		70	А
FRMS	RMS current			110	A
		Sine wave, 10 ms	25	1200	A
I FSM	Surge forward current	Without reverse voltage	180	1100	А
		0	25	7200	A ² s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	180	6050	A ² s
VF	Forward voltage	Forward current = 220A	25	1.35	V
	-				V
V F(TO)	Threshold voltage		180	0.77	-
r _F	Forward slope resistance		180	2.0	mΩ
MOUNTI					
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.40	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.15	°C/W
Τj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
A	Acceleration (in rotating application)			200	g
M W	Mounting torque Weight (Approx.)			4.5 40	NM gm
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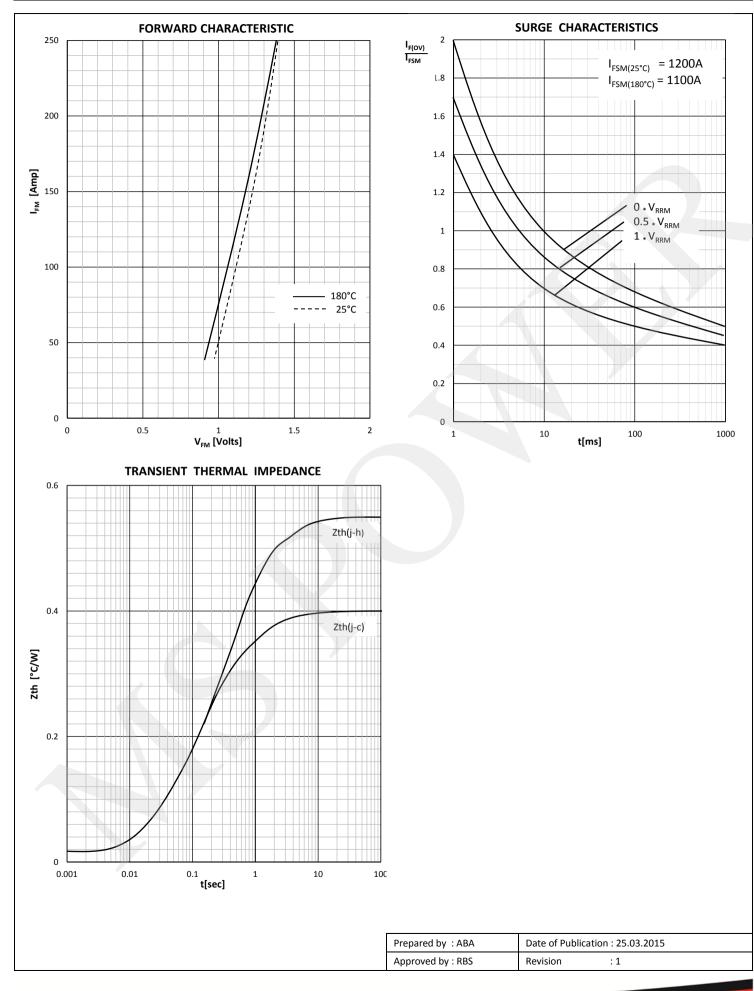




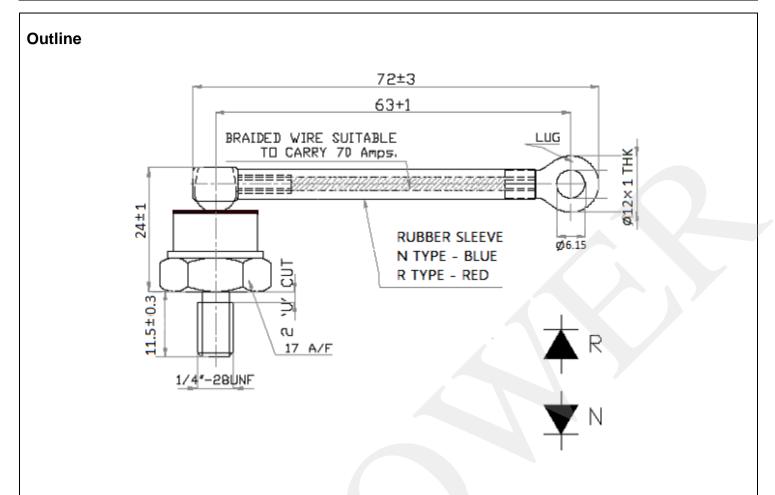
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MS Power GmbH

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



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