## **MS D71**





#### **Key Parameters**

= 1600v = 95A = 1150A  $V_{\mathsf{RRM}}$ I<sub>F(AV)</sub> IFSM  $V_{F(TO)}$ = 0.85 V $= 3.0 \text{m}\Omega$ ГF

#### **Features**

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

# ApplicationsPower Supplies

- Uncontrolled Rectifiers
- Battery Chargers

#### **Ordering Information**

MS D	71	N	ХX	M	В
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V <sub>RRM</sub>	Stud Threads M = Stud M8 X 1.25 U = 1/4" UNF M1 = Stud M6 X 1	Technology B = Solder Bond Technology
Order Code, MS D71N16MB : 1600V, VRRM, Metric Stud, Diode with stud Cathode					

Prepared by : ABA	Date of Publication : 20.12.2016		
Approved by : RBS	Revision	: 2	

# Technical Information Power Rectifier Diodes

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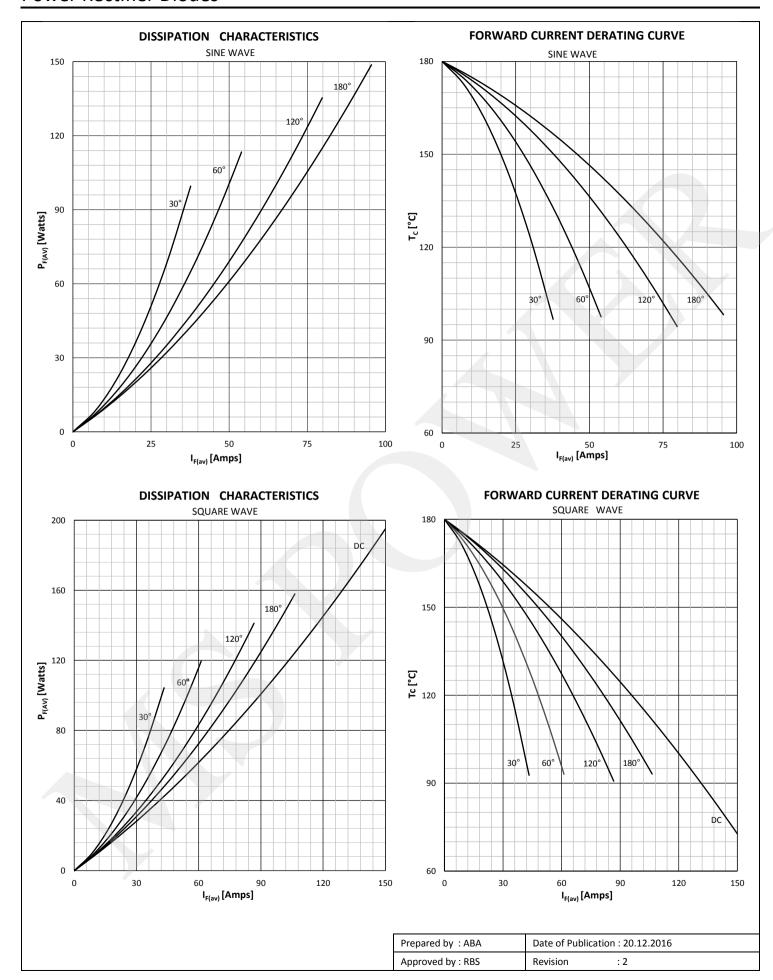
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	10	mA
CONDU	CTING		<u>.</u>	,	
I F (AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> =100°C T <sub>c</sub> = 125°C		95 70	А
I FRMS	RMS current			150	Α
I FSM	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	1150	Α
I FSM			180	1000	А
10.4	l² t	Sine wave, 10 ms Without reverse voltage	25	6612	A <sup>2</sup> s
l² t			180	5000	A <sup>2</sup> s
VF	Forward voltage	On-state current = 210A	180	1.50	V
V F(TO)	Threshold voltage		180	0.85	V
r <sub>F</sub>	Forward slope resistance		180	3.0	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.55	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.20	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			4	NM
W	Weight (Approx.)			21	gm

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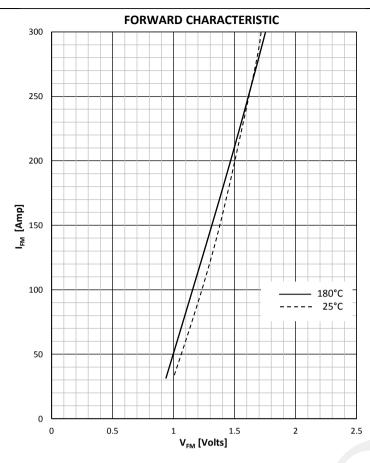


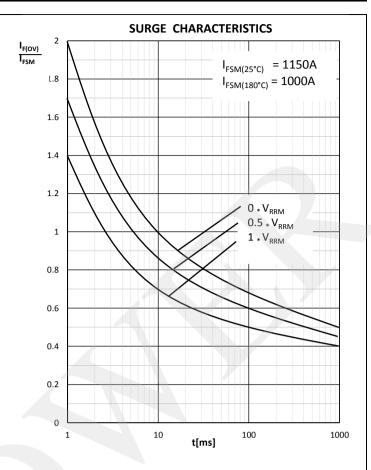
# Technical Information

### **Power Rectifier Diodes**

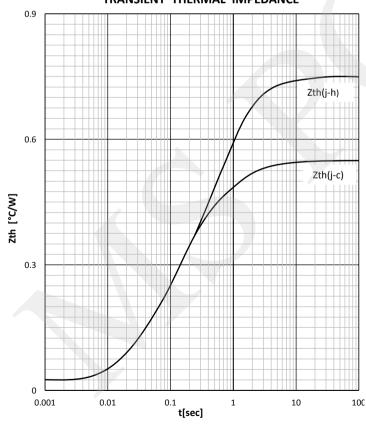
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#### TRANSIENT THERMAL IMPEDANCE

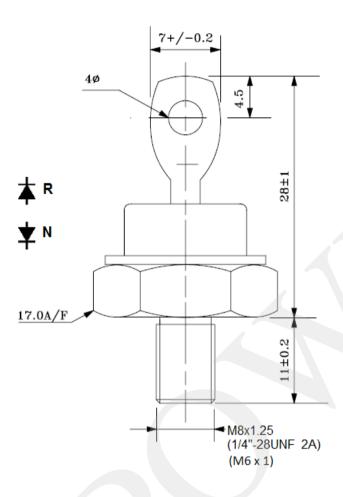


Prepared by : ABA	Date of Publication : 20.12.2016		
Approved by : RBS	Revision	: 2	

### **MS D71**



#### **Outline**



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Prepared by : ABA	Date of Publication : 20.12.2016
Approved by : RBS	Revision : 2

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Prepared by : ABA	Date of Publication : 20.12.2016		
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