### **MS D240**





### **Key Parameters**

= 1000. = 320A = 6000A  $V_{RRM}$ I<sub>F(AV)</sub> IFSM = 0.85 V $V_{F(TO)}$  $= 0.60 \text{m}\Omega$ ГF

#### **Features**

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

## Applications Power Supplies

- **Uncontrolled Rectifiers**
- Battery Chargers

### **Ordering Information**

MS D	240	N	XX	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 M16 X 1.5 U = 3/4" -16UNF-2A M1 = Stud M20 X 1.5	Technology B = Solder Bond Technology

Order Code MS D240N16MB: 1600V VRRM, M16 Stud, Diode with stud Cathode

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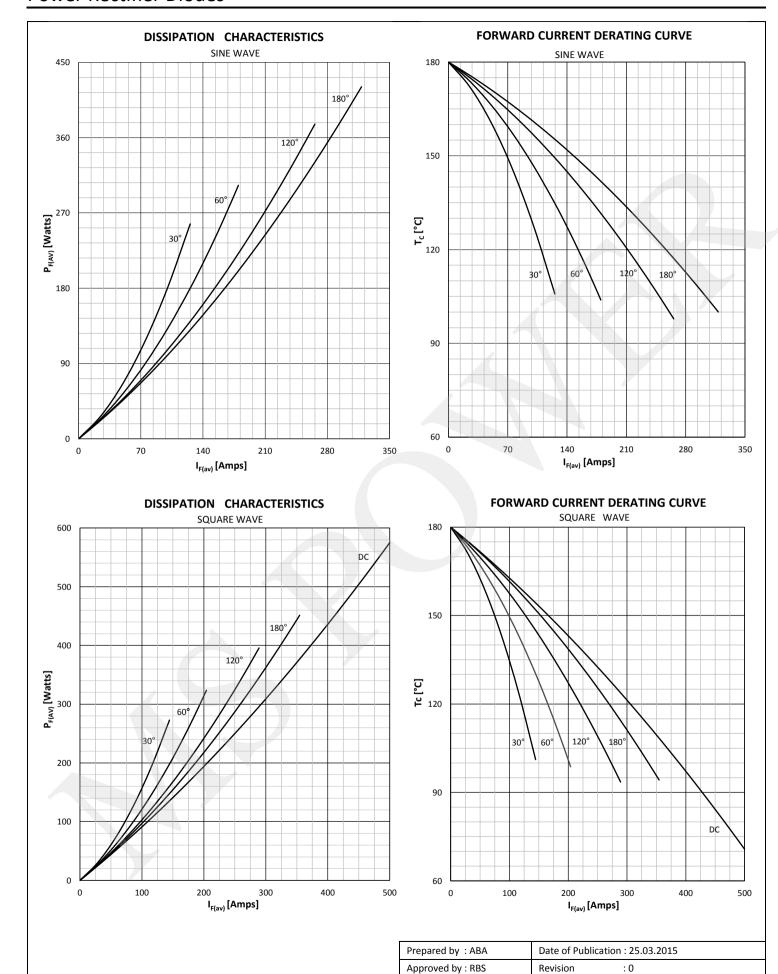


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	30	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> =100°C T <sub>c</sub> =125°C		320 240	А
I FRMS	RMS current			500	Α
1 ====	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	6000	Α
I FSM			180	5000	А
		Sine wave, 10 ms	25	180000	A²s
l² t	l²t	Without reverse voltage	180	125000	A <sup>2</sup> s
VF	Forward voltage	On-state current = 750A	180	1.30	V
V F(TO)	Threshold voltage		180	0.85	V
r <sub>F</sub>	Forward slope resistance		180	0.60	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.19	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.03	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			26	NM
W	Weight (Approx.)			250	gm

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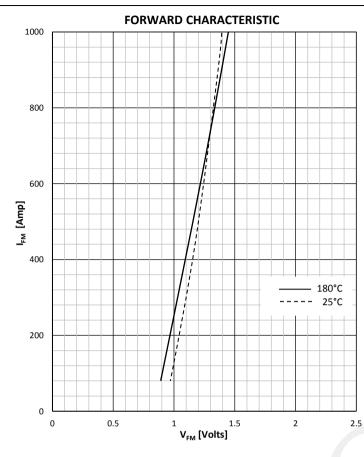
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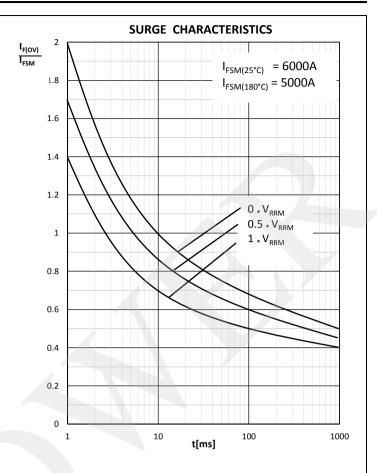




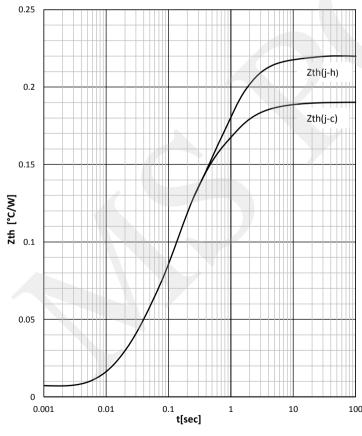
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#### TRANSIENT THERMAL IMPEDANCE

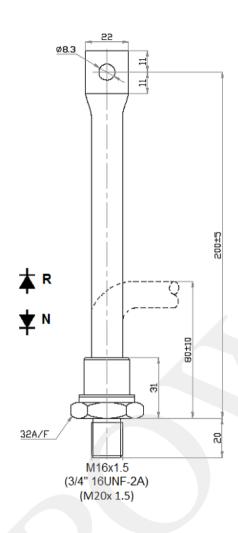


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#### **Outline**



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