## **MS D130**





### **Key Parameters**

 $V_{RRM}$ = 1800VI<sub>F(AV)</sub> = 165A = 2500AIFSM = 0.85 V $V_{F(TO)}$  $= 1.3 \text{m}\Omega$ 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	130	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 M12 X 1.75 U = 1/2"-20UNF 2A	Technology B = Solder Bond Technology
Order Code MS D130N16MB : 1600V V <sub>RRM</sub> , Metric Stud, Diode with stud Cathode					

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# Technical Information Power Rectifier Diodes

## **MS D130**

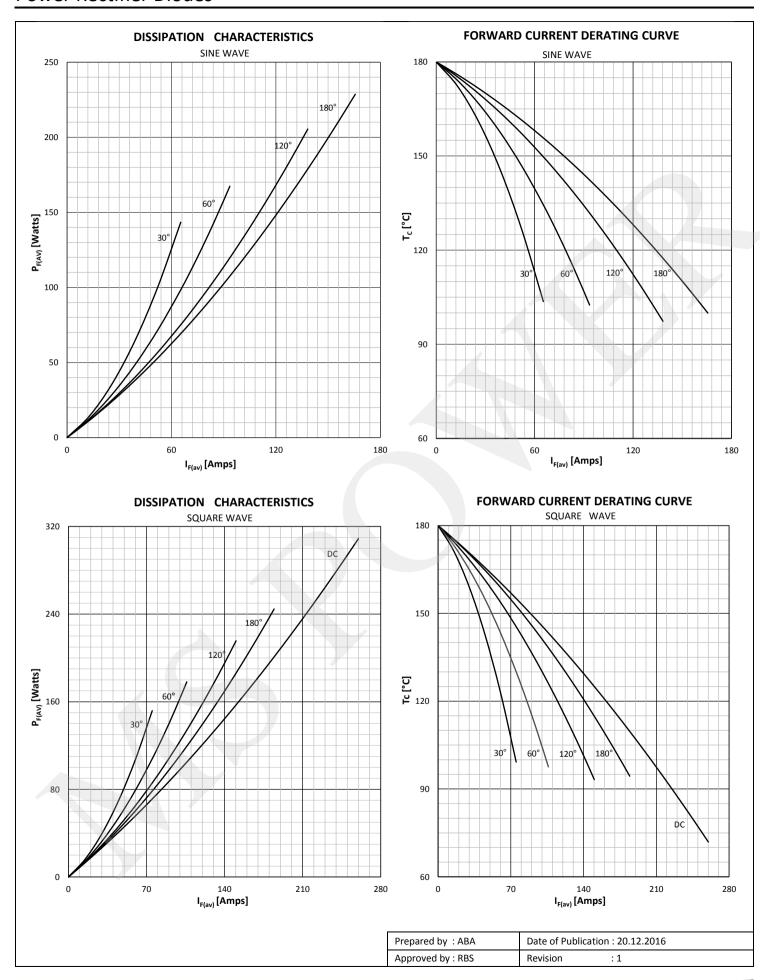


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM	180	15	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> =100°C 180° sin ,50 Hz, T <sub>c</sub> =125°C		165 130	А
I FRMS	RMS current	T <sub>c</sub> =100°C		260	Α
1 ====	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	2500	A
I FSM			180	2000	А
		Sine wave, 10 ms	25	31250	A <sup>2</sup> s
l² t		Without reverse voltage	180	20000	A <sup>2</sup> s
VF	Forward voltage	On-state current = 520A	180	1.53	V
V F(TO)	Threshold voltage		180	0.85	V
r <sub>F</sub>	Forward slope resistance	/	180	1.3	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.35	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.08	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			10 - 13	NM
W	Weight (Approx.)			110	gm

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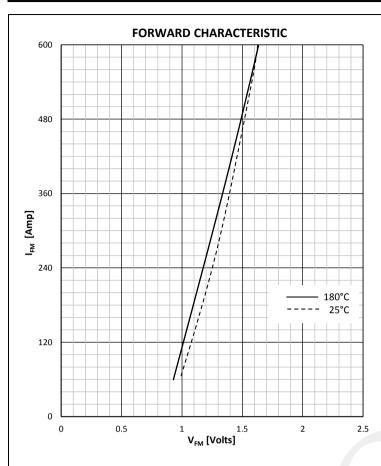


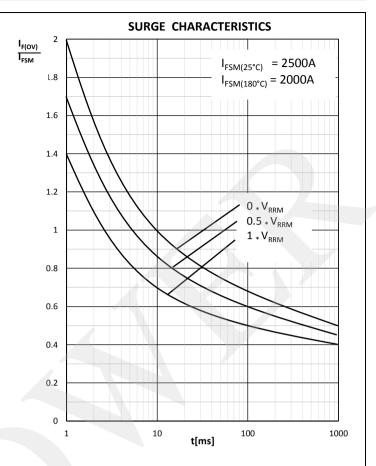


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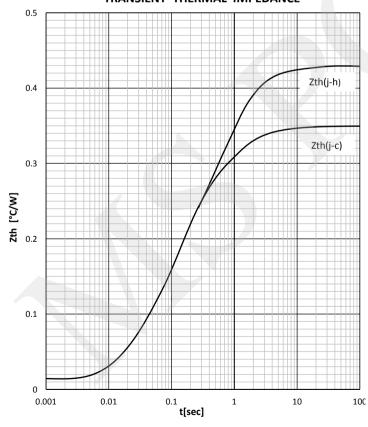
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#### TRANSIENT THERMAL IMPEDANCE

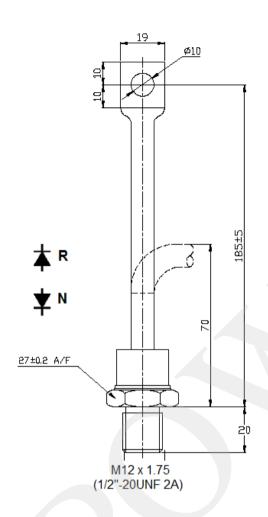


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## **MS D130**



#### **Outline**



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### **MS D130**



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