MS D16





Key Parameters

V_{RRM} = 1800V I_{F(AV)} = 16A I_{FSM} = 350A = 1800V= 0.85 V $V_{F(TO)}$ $= 11 \text{m}\Omega$ 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	16	N	ХX	M	В
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V _{RRM}	Stud Threads M = Stud M6 X 1 U = 10-32 UNF	Technology B = Solder Bond Technology
Order Code MS D16N16MB : 1600V V _{RRM} , Metric Stud, Diode with stud Cathode					

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Technical Information Power Rectifier Diodes

MS D16



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	5	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T _c =125°C		16	Α
I FRMS	RMS current			25	Α
I FSM S	Surge forward current	Sine wave, 10 ms	25	350	Α
		Without reverse voltage	180	300	А
		Sine wave, 10 ms Without reverse voltage	25	612	A²s
l² t	I ² t		180	450	A ² s
VF	Forward voltage	On-state current = 60A	25	1.55	V
V F(TO)	Threshold voltage		180	0.85	V
r _F	Forward slope resistance	/	180	11.0	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		2.7	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		1.0	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			2	NM
W	Weight (Approx.)			5.5	gm

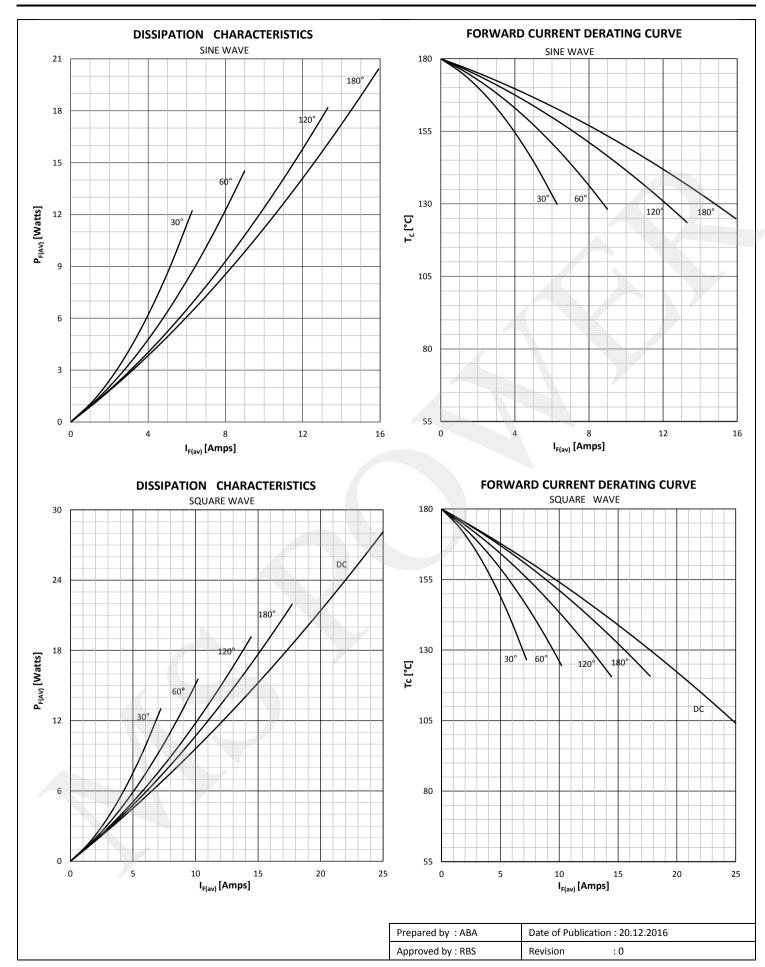
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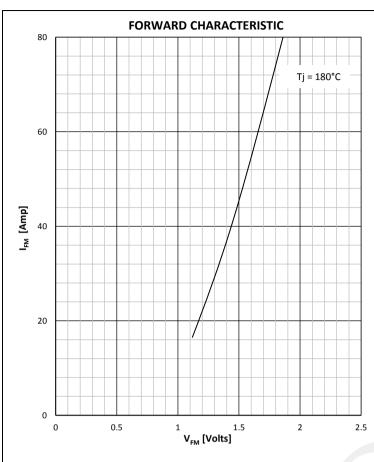


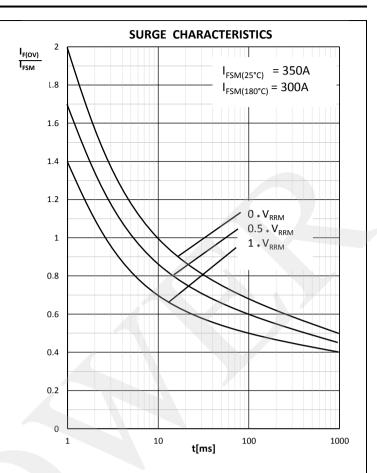
Technical Information

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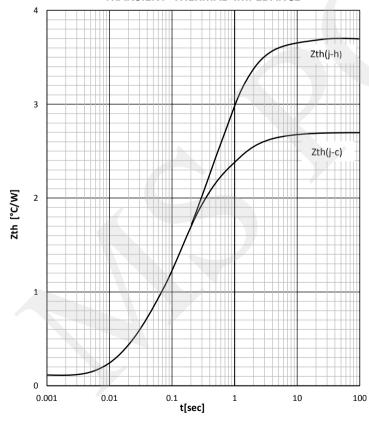
MS D16







TRANSIENT THERMAL IMPEDANCE

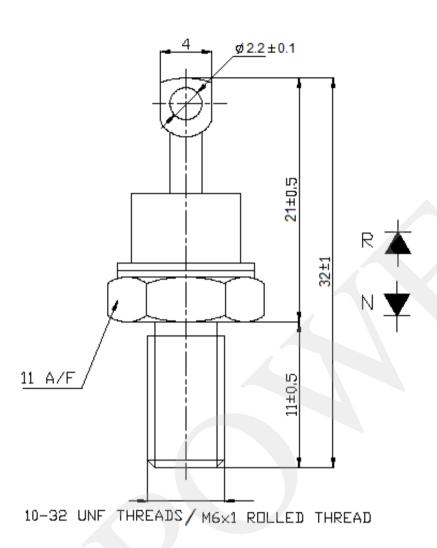


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