MS D330





Key Parameters

 V_{RRM} = 1600V $I_{F(AV)}$ = 330A I_{FSM} = 9500A $V_{F(TO)}$ = 0.77V r_{F} = 0.49m Ω

Features

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

Applications

- Power Supplies
- Uncontrolled Rectifiers
- Battery Chargers
- Rotating applications

Ordering Information

MS D	330	N	XX	M	В
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V _{RRM}	Stud Threads M = Stud M20 X 1.5 U = 3/4" -16UNF-2A M1 = Stud M16 X 1.5	Technology B = Solder Bond Technology
Order Code MC D220N4CMD + 4C00V V M20 Ctrid Diada with atrid Cathoda					

Order Code MS D330N16MB: 1600V VRRM, M20 Stud, Diode with stud Cathode

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Technical Information Power Rectifier Diodes

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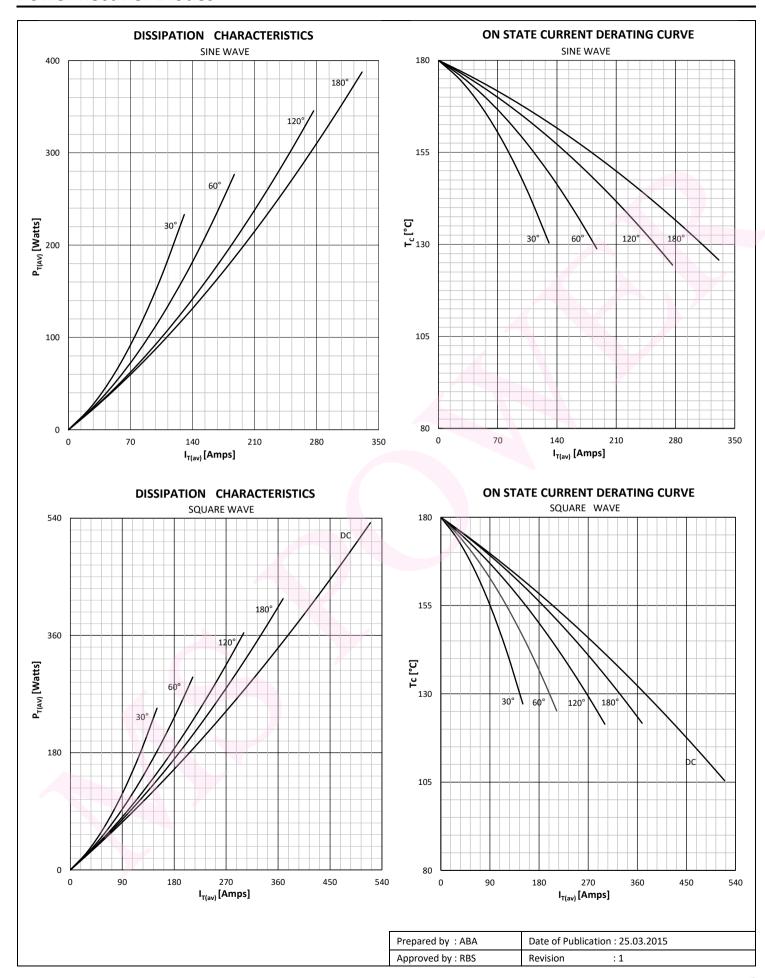
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	25	0.5	mA
I RRM	Repetitive peak reverse current	V= V RRM	180	30	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =125°C		330	А
I FRMS	RMS current			520	Α
Leon	Surge forward surrent	Sine wave, 10 ms Without reverse voltage	25	9500	Α
I FSM	Surge forward current		180	8250	Α
		Sine wave, 10 ms Without reverse voltage	25	4 <mark>51 x 10³</mark>	A ² s
l² t	l² t		180	340 x 10 ³	A ² s
VF	Forward voltage	On-state current = 942A	180	1.22	V
V F(TO)	Threshold voltage	,	180	0.77	V
r _F	Forward slope resistance		180	0.49	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.14	°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			28 - 37	NM
W	Weight (Approx.)			160 ±5	gm

Note: Diode withstands acceleration of 3500g in rotating application

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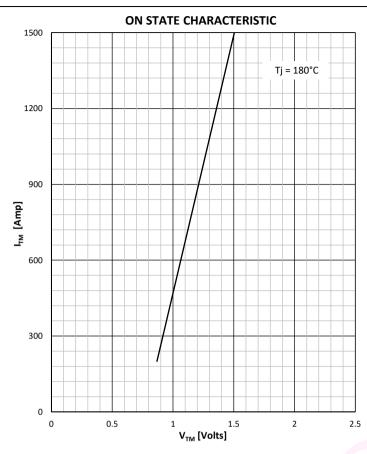


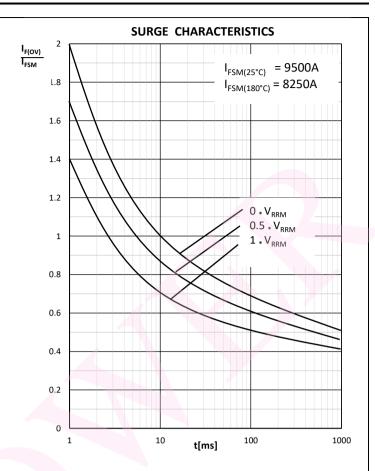


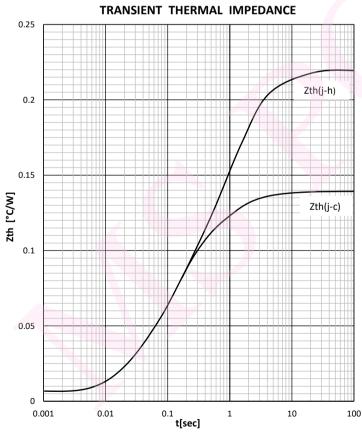
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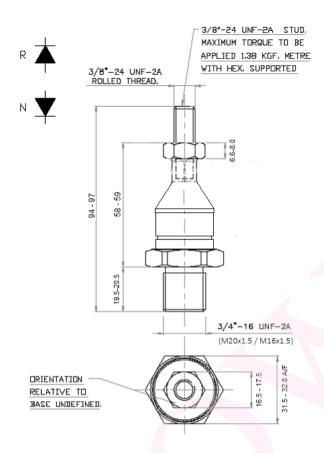


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