MS D321





Key Parameters

 V_{RRM} = 1600V $I_{F(AV)}$ = 420A I_{FSM} = 9000A $V_{F(TO)}$ = 0.80V r_{F} = 0.45m Ω

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	321	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 M24 X 1.5	Technology B = Solder Bond Technology
Order Code, MS D321N16MR : 1600V, Veny, M24 Stud, Diode with stud Cathode					

Order Code MS D321N16MB : 1600V VRRM, M24 Stud, Diode with stud Cathode

Prepared by : ABA	Date of Publication : 25.03.2015	
Approved by : RBS	Revision	:0

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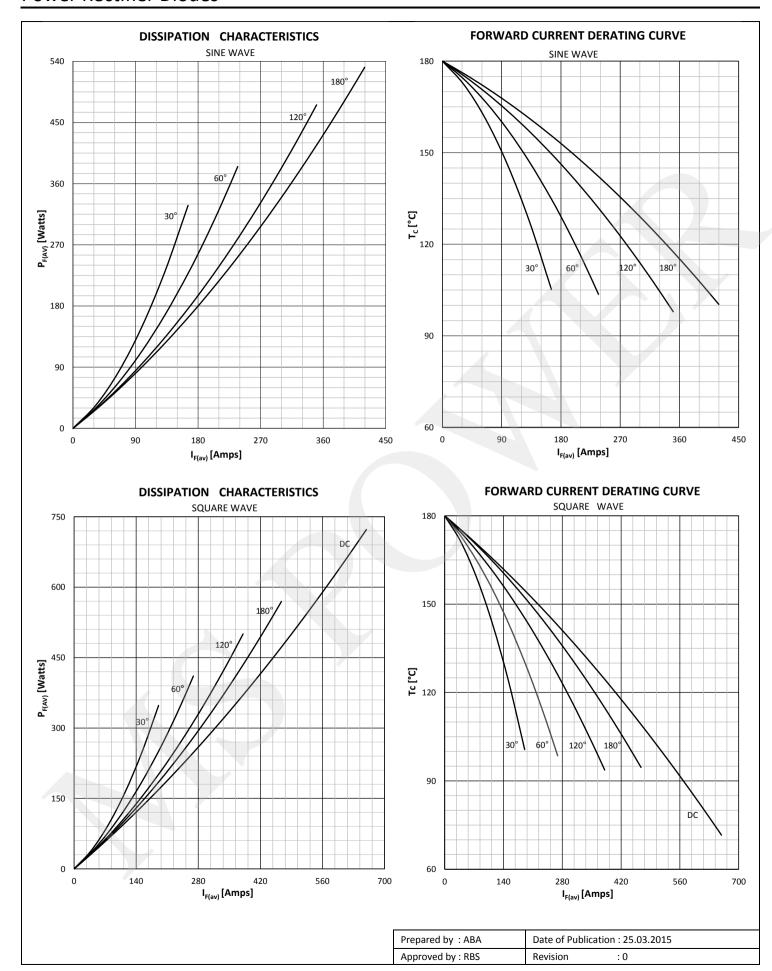


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	40	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C T _c =125°C		420 320	А
I FRMS	RMS current			659	Α
I FSM S	Course forward course	Sine wave, 10 ms Without reverse voltage	25	9000	A
	Surge forward current		180	8000	А
		Sine wave, 10 ms	25	405 x 10 ³	A²s
l² t	l² t	Without reverse voltage	180	320 x 10 ³	A²s
VF	Forward voltage	On-state current = 1000A	180	1.25	V
V F(TO)	Threshold voltage		180	0.80	V
r _F	Forward slope resistance		180	0.45	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.15	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.015	°C/W
Тj	Max. junction temperature			180	°C
T stg	Storage temperature			-40 180	°C
М	Mounting torque			32	NM
W	Weight (Approx.)			350	gm

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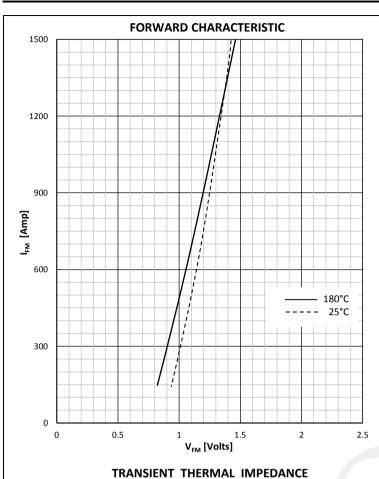
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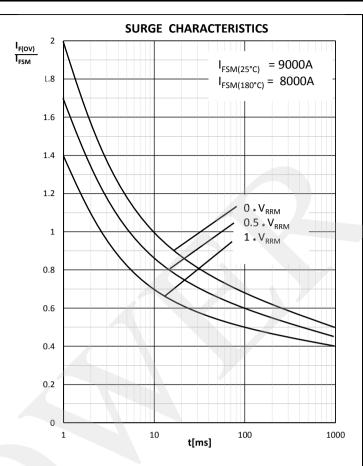


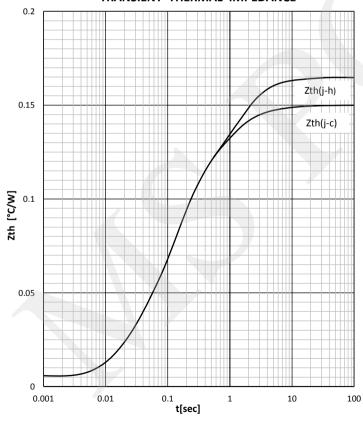


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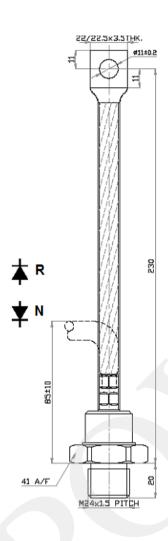


Prepared by : ABA	Date of Publication	n : 25.03.2015
Approved by : RBS	Revision	:0

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