MS D321





Key Parameters

 V_{RRM} = 1600V $I_{F(AV)}$ = 420A = 9000A I_{FSM} $V_{F(TO)}$ = 0.80V $= 0.45 \text{m}\Omega$ r _F

Features

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

ApplicationsPower Supplies

- Uncontrolled Rectifiers
- Battery Chargers

Ordering Information

MS D	321	N	ХX	М	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 D321N16MB : 1600V Vppm, M24 Stud, Diode with stud Cathode					

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Technical Information Power Rectifier Diodes

MS D321



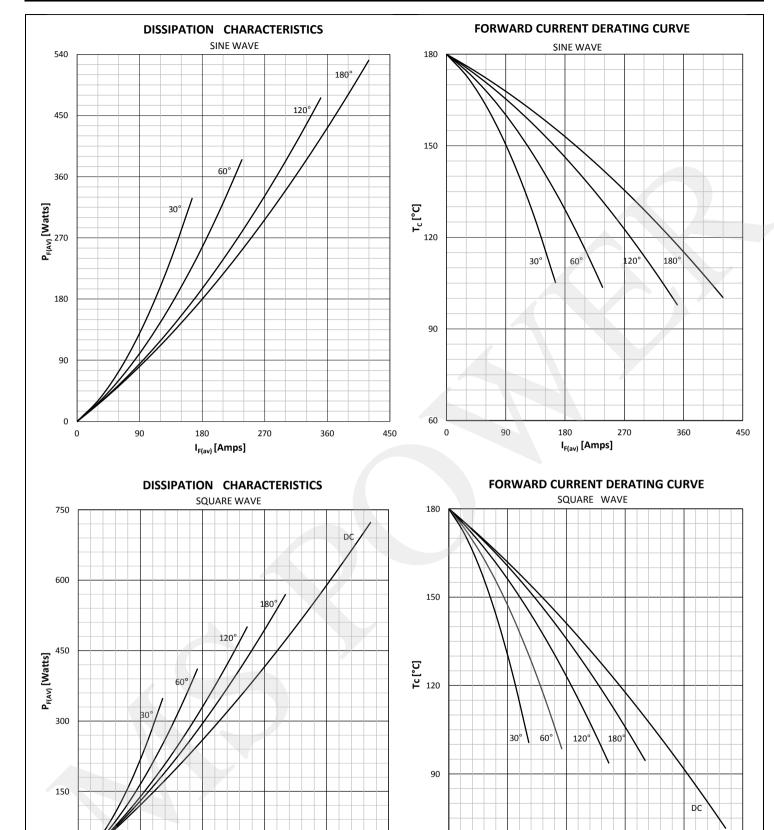
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
вьоскі	NG				
V RRM	Repetitive peak reverse voltage		180	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		180	300 - 1700	V
I RRM	Repetitive peak reverse current	V= V RRM	180	40	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C T _c =125°C		420 320	Α
I FRMS	RMS current			659	Α
1	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	9000	A
I FSM			180	8000	А
10.4		Sine wave, 10 ms Without reverse voltage	25	405 x 10 ³	A²s
l² t	I² t		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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60

140

700

560

 $I_{F(av)}[Amps]$

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 $I_{F(av)}$ [Amps]

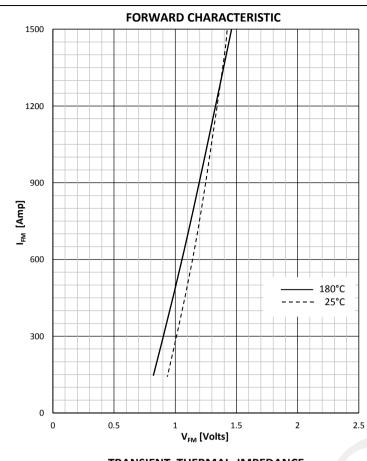
700

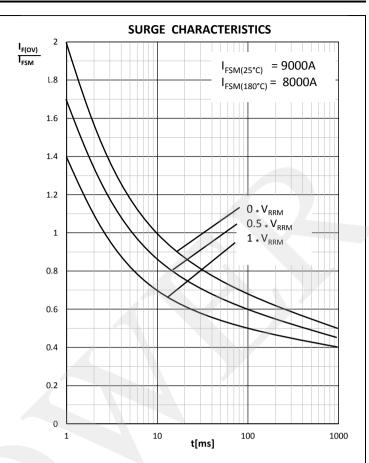
560

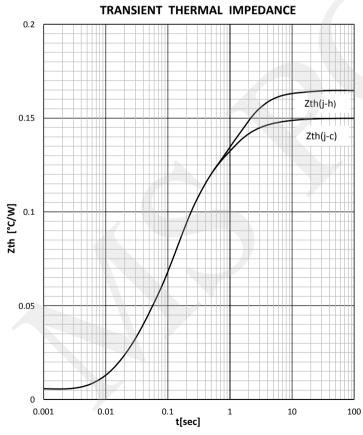
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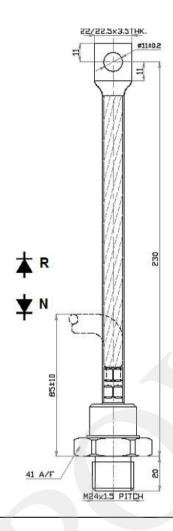


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Outline





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