MS D301





Key Parameters

 $\begin{array}{lll} V_{RRM} & = 2400 V \\ I_{F(AV)} & = 300 A \\ I_{FSM} & = 7500 A \\ V_{F(TO)} & = 0.90 V \\ r_{F} & = 0.59 m \Omega \end{array}$

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	301	N	ХX	U	В
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V _{RRM}	Stud Threads U = 3/4" -16UNF-2A	Technology B = Solder Bond Technology
Order Code, MS D201N24LIR : 2400V, Very, LINE Stud, Diede with stud Cathode					

Order Code MS D301N24UB: 2400V VRRM, UNF Stud, Diode with stud Cathode

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Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		180	2000 - 2400	V
V RSM	Non-repetitive peak reverse voltage		180	2100 - 2500	V
l rrm	Repetitive peak reverse current	V= V RRM	25	0.5	mA
I RRM	Repetitive peak reverse current	V= V RRM	180	20	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =120°C		300	Α
I FRMS	RMS current			470	Α
1	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	7500	Α
I FSM			180	6050	А
		Sine wave, 10 ms	25	281 x 10 ³	A ² s
l² t	l² t	Without reverse voltage	180	183 x 10 ³	A ² s
VF	Forward voltage	On-state current = 942A	180	1.46	V
V F(TO)	Threshold voltage	/	180	0.90	V
r _F	Forward slope resistance		180	0.59	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, DC	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			2.5 - 2.77	KgM
W	Weight (Approx.)			160 ±5	gm

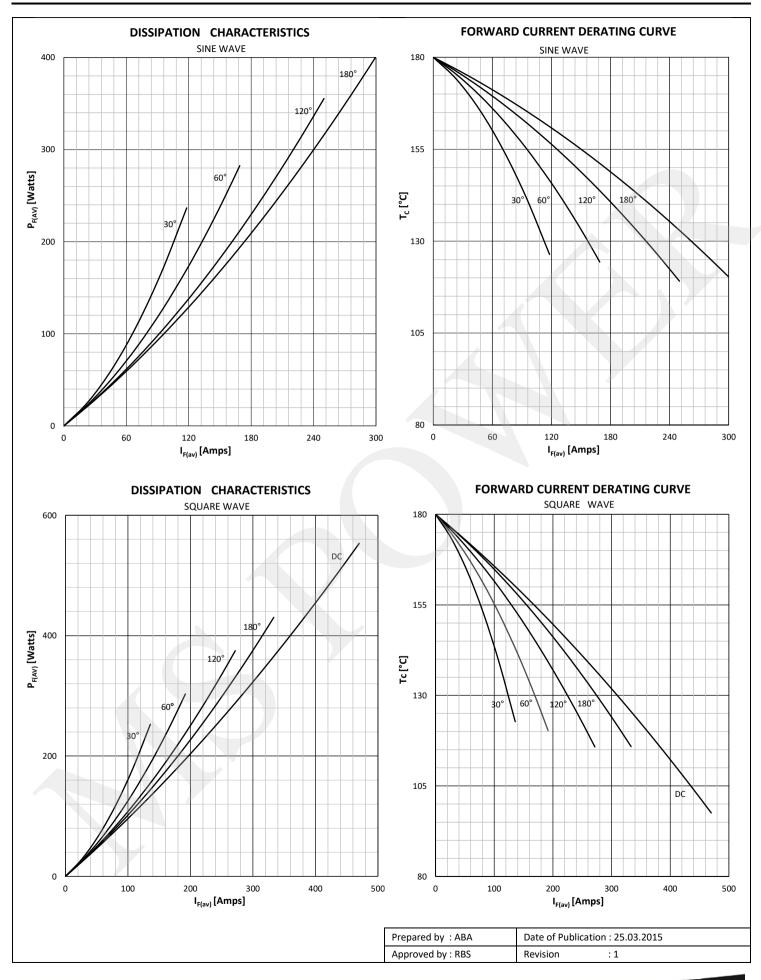
Note: Diode withstands acceleration of 3500g in rotating application

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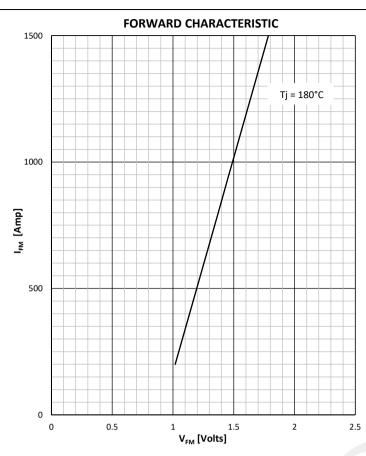


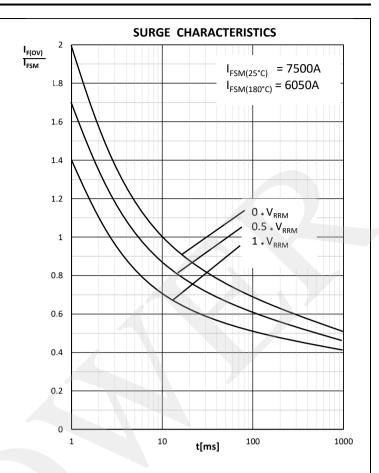


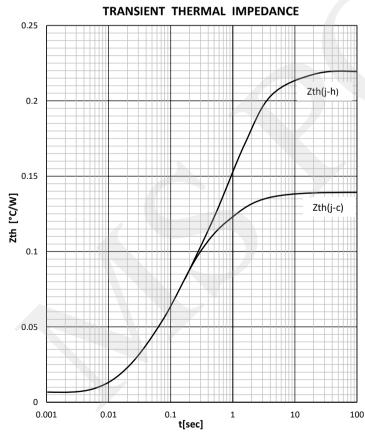
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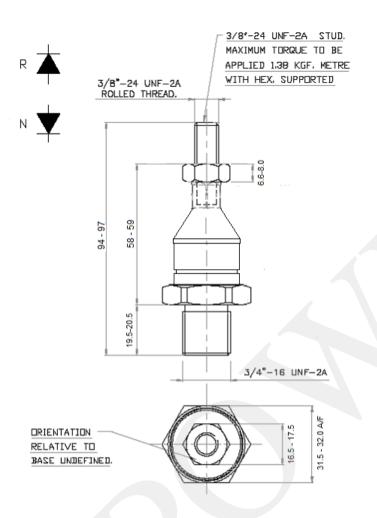


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