MS D318





Key Parameters

 V_{RRM} = 200 = 318A 9500/ = 2800 VI_{F(AV)} = 8500A IFSM $V_{F(TO)}$ = 0.80V $= 0.67 \text{m}\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Pressure contacts technology for high reliability

Applications ■ Power Supplies

- Uncontrolled Rectifiers
- Welding
- Induction Heating / Melting
- Battery Chargers

Ordering Information

MS D	318	N	ХX	F	К
Rectifier Diode	Current code	Polarity R= Base Anode N= Base Cathode	Voltage Code Code X 100 = V _{RRM}	F = Flat Base	Technology K = Pressure Contact Technology
Order Code MS D318N28FK : 2800V VRRM, Flat base, Diode with base Cathode					

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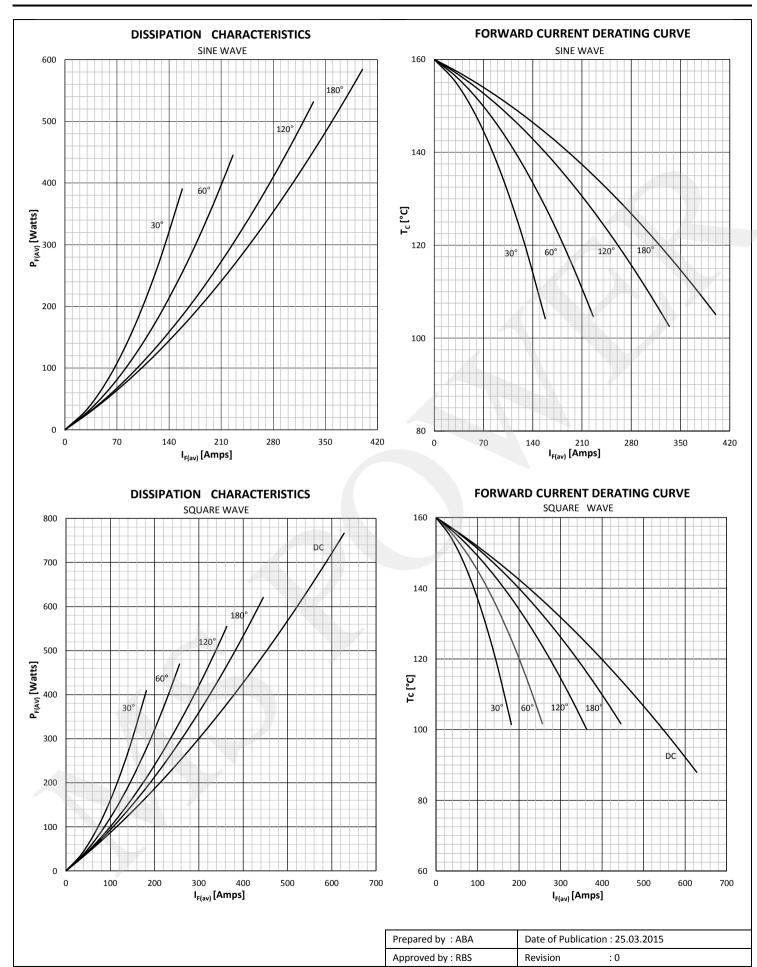


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		160	200 - 2800	V
V RSM	Non-repetitive peak reverse voltage		160	300 - 2900	V
I RRM	Repetitive peak reverse current	V= V RRM	160	50	mA
CONDU	CTING		<u>.</u>		
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =120°C 180° sin ,50 Hz, T _c =105°C		318 400	Α
I FRMS	RMS current	T _c =105°C		628	Α
1	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	8500	Α
I FSM			160	7500	А
		Sine wave, 10 ms Without reverse voltage	25	361 x 10 ³	A ² s
l² t	l² t		160	281 x 10 ³	A²s
VF	Forward voltage	On-state current = 1260A	160	1.75	V
V F(TO)	Threshold voltage		160	0.80	V
r _F	Forward slope resistance		160	0.67	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.094	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.02	°C/W
Тj	Max. junction temperature			160	°C
T stg	Storage temperature			-40 160	°C
М	Mounting torque			1.66 - 2.07	KgM
W	Weight (Approx.)			530	gm

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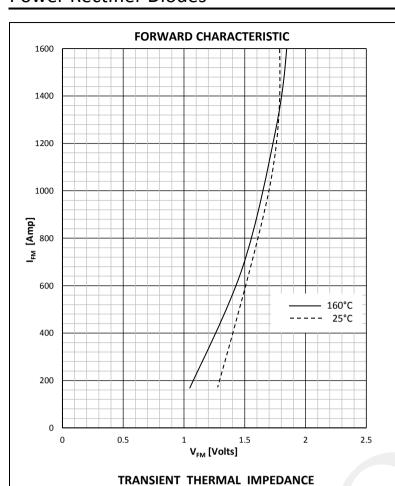
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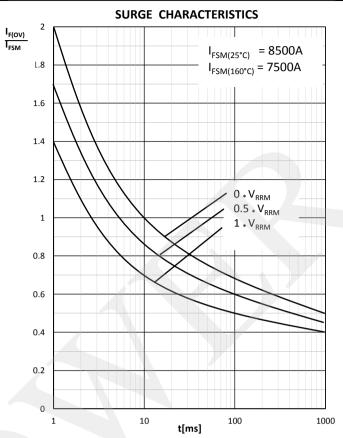




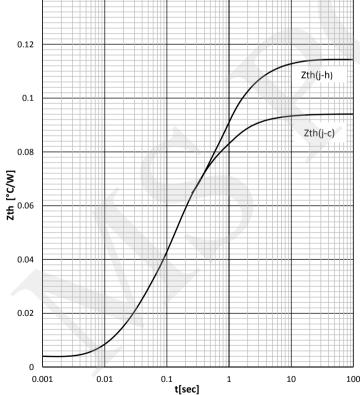
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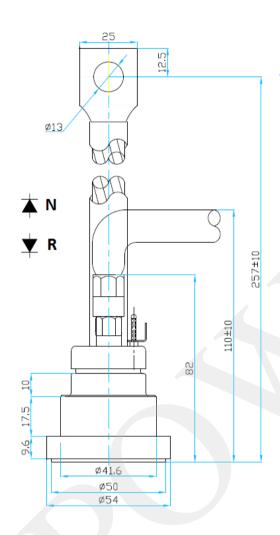


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