MS D318





Key Parameters

Vrrm	= 2800V
F(AV)	= 318A
FSM	= 8500A
V _{F(TO)}	= 0.80V
ľ F	= 0.67mΩ

Features

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

- ApplicationsPower Supplies
- **Uncontrolled Rectifiers**
- Welding
- Induction Heating / Melting
- Battery Chargers

Ordering Information

MS D	318	Ν	ХХ	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

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

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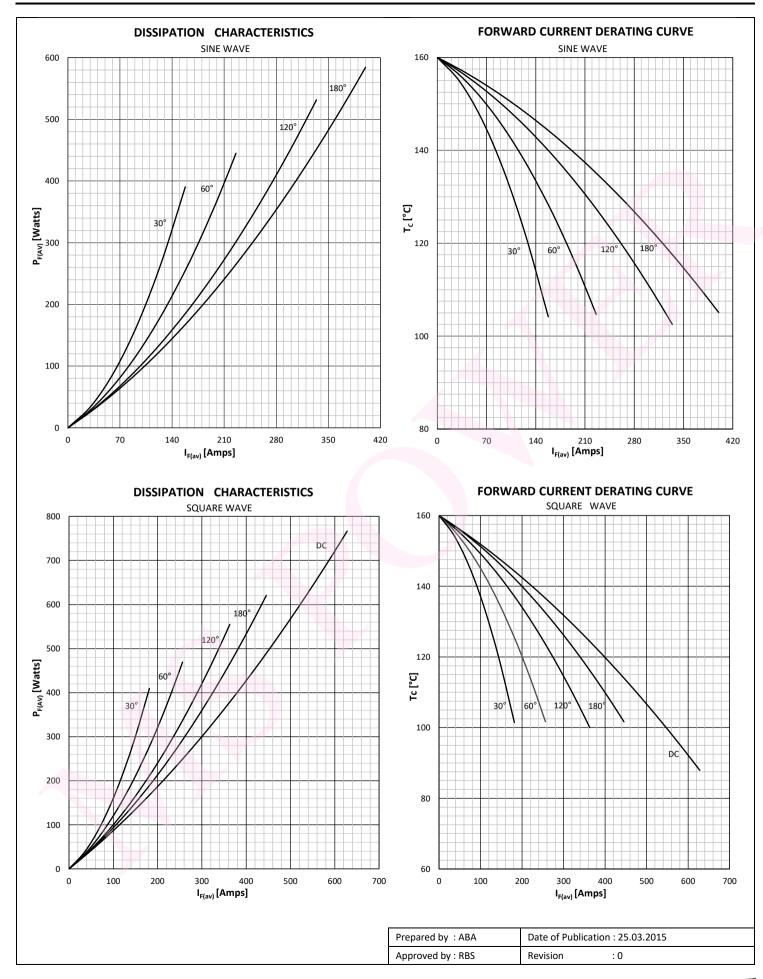


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		160	200 - 2800	V
V RSM	Non-repetitive peak reverse voltage		160	300 - 2900	V
I RRM	Repetitive peak reverse current	V= V RRM	160	50	mA
CONDUC	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =120°C 180° sin ,50 Hz, T _c =105°C		318 400	А
I FRMS	RMS current	T _c =105°C		628	А
Sine wa	Sine wave, 10 ms	25	8500	A	
I FSM	Surge forward current	Without reverse voltage	160	7500	А
		Sine wave, 10 ms	25	361 x 10 ³	A²s
l² t	l ² t	Without reverse voltage	160	281 x 10 ³	A ² s
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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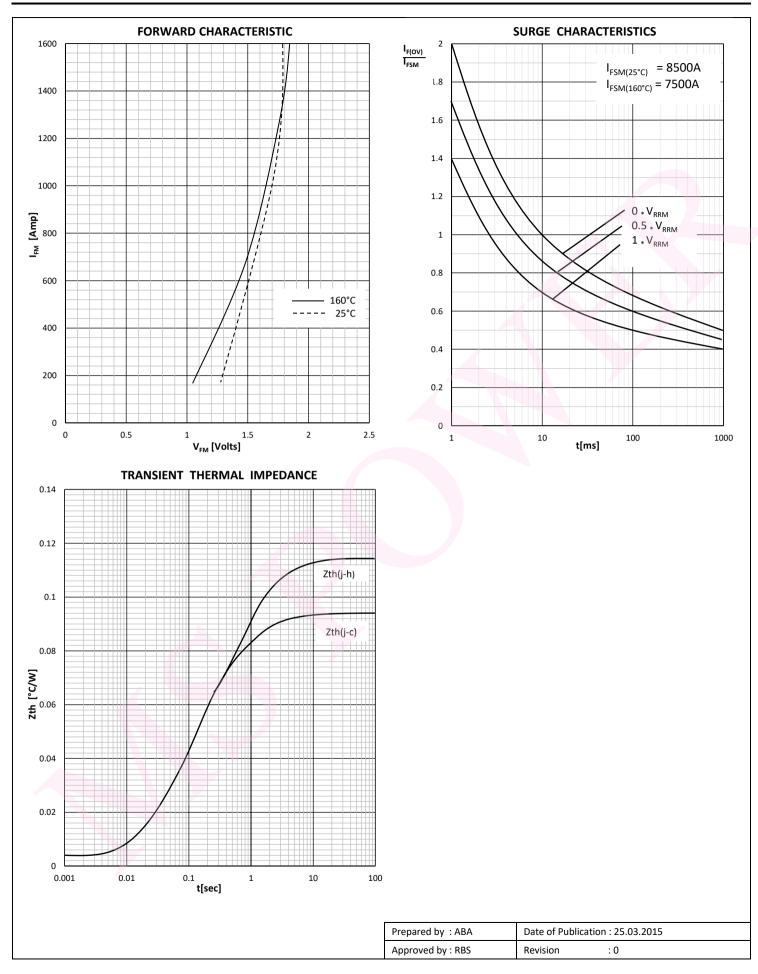
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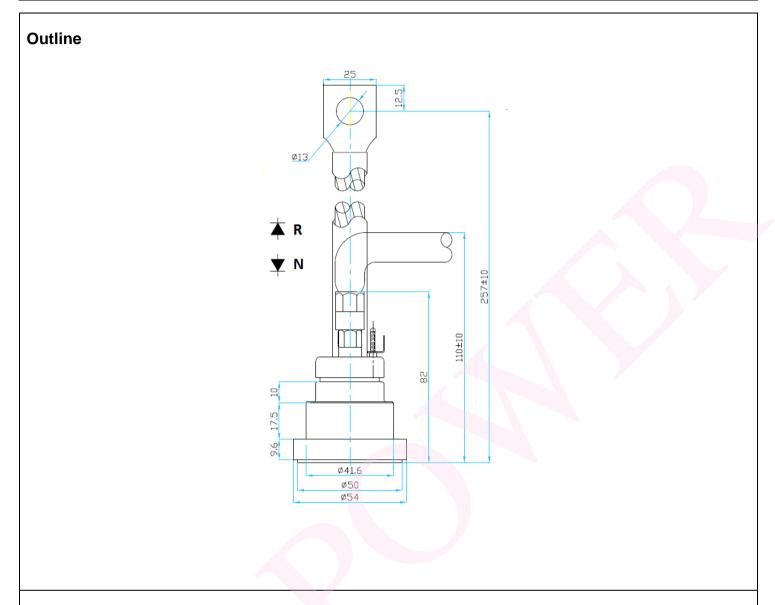


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NS power



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