MS D2315





Key Parameters

= 5400 = 2315A = 24000A V_{RRM} I_{F(AV)} IFSM $V_{F(TO)}$ = 0.96V $= 0.207 m\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Hermetically sealed ceramic package
- High case non-rupture current

ApplicationsTraction Rectifiers

- **Uncontrolled Rectifiers**
- Welding
- Induction Heating / Melting

Ordering Information

MS D	2315	С	ХX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D2315C54 : 5400V V _{RRM} , Capsule Diode			

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

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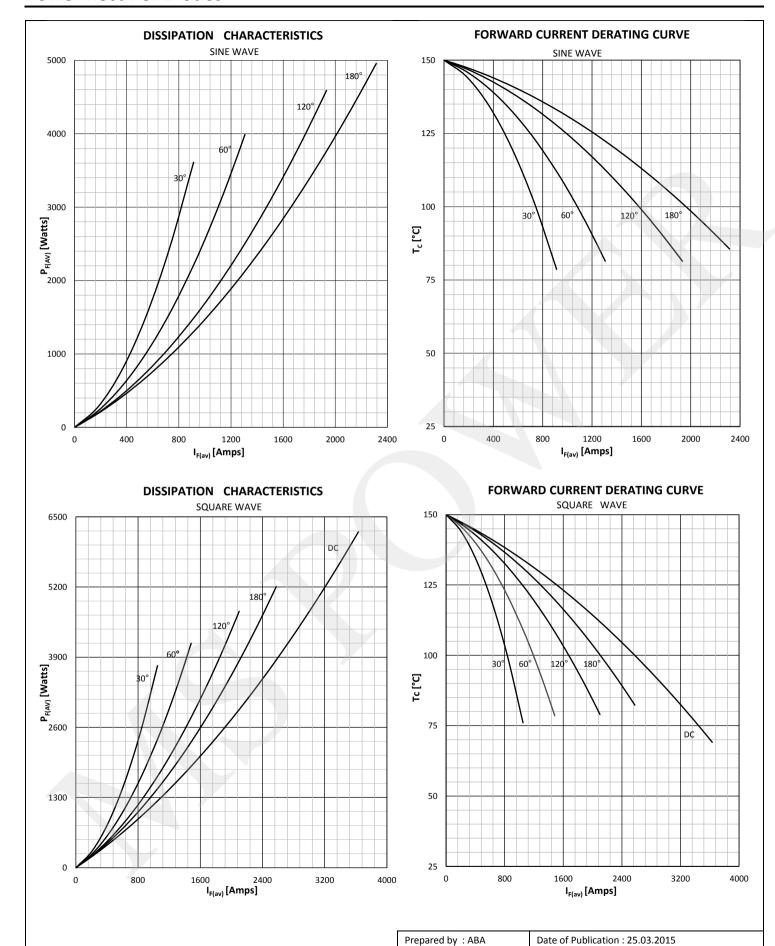


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	4600 - 5400	V
V RSM	Non-repetitive peak reverse voltage		150	4800 - 5600	V
I RRM	Repetitive peak reverse current	V= V RRM	150	150	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C , double side cooled 180° sin,50 Hz, T_c =99°C , double side cooled		2315 2000	А
I FRMS	RMS current	T_c =85°C , double side cooled		3634	Α
Leon	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	24000	Α
I FSM			150	21800	А
	l² t	Sine wave, 10 ms Without reverse voltage	25	2880 x 10 ³	A ² s
l² t			150	2376 x 10 ³	A ² s
VF	Forward voltage	On-state current = 5000A	150	2.0	V
V F(TO)	Threshold voltage		150	0.96	V
r _F	Forward slope resistance		150	0.207	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.013	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.007	°C/W
Тj	Max. junction temperature			150	°C
T stg	Storage temperature			-40 150	°C
М	Clamping force			40 - 50	KN
W	Weight (Approx.)			820	gm

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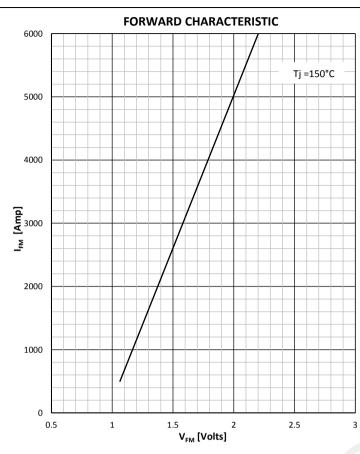
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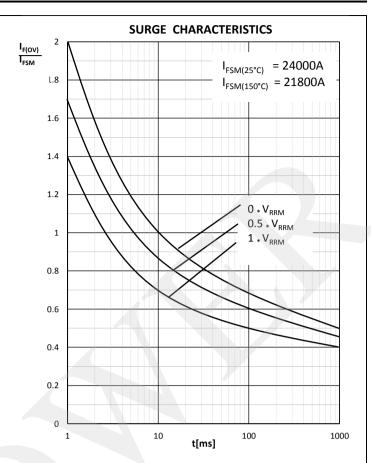
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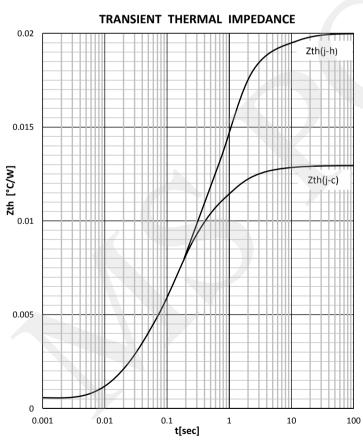
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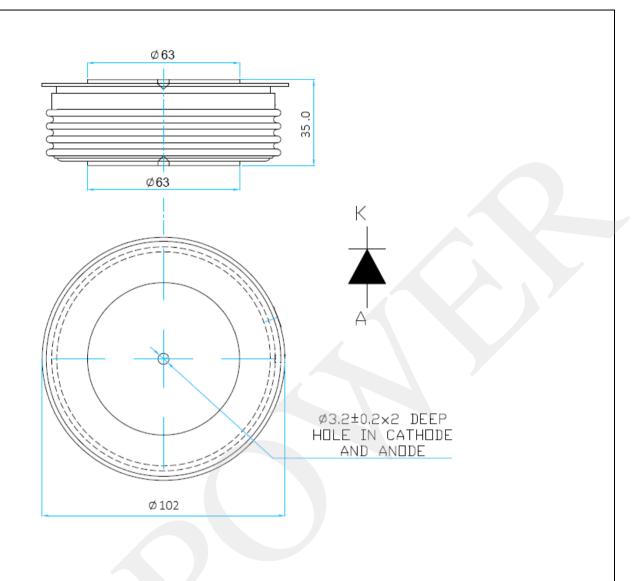


Prepared by : ABA	Date of Publication : 25.03.2015
Approved by : RBS	Revision : 0

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Prepared by : ABA	Date of Publication : 25.03.2015	
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