MS D2940





Key Parameters

 V_{RRM} = 4200 V= 2940AI_{F(AV)} = 27500A**I**FSM $V_{F(TO)}$ = 0.74 V $= 0.132 \text{m}\Omega$ ГF

Features

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

ApplicationsTraction Rectifiers

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

Ordering Information

MS D	2940	С	хх
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D2940C42 : 4200V VRRM, Capsule Diode			

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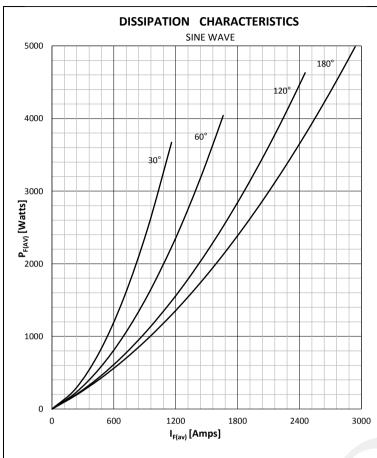


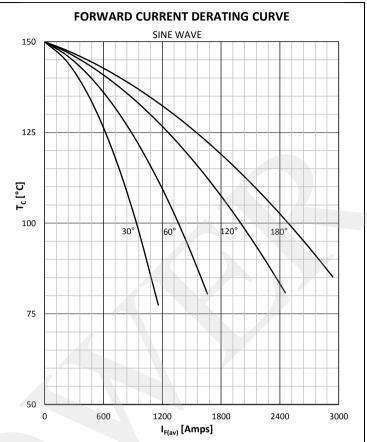
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	2600 - 4200	V
V RSM	Non-repetitive peak reverse voltage		150	2800 - 4400	V
I RRM	Repetitive peak reverse current	V= V RRM	150	150	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, Tc=85°C , double side cooled 180° sin,50 Hz, Tc=100°C , double side cooled		2940 2500	А
I FRMS	RMS current	Tc=85°C , double side cooled		4616	Α
I FSM	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	27500	Α
I FSM			150	25500	А
	l² t	Sine wave, 10 ms Without reverse voltage	25	3781 x 10 ³	A ² s
l² t			150	3251 x 10 ³	A ² s
VF	Forward voltage	On-state current = 5000A	150	1.40	V
V F(TO)	Threshold voltage		150	0.74	V
r _F	Forward slope resistance		150	0.132	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

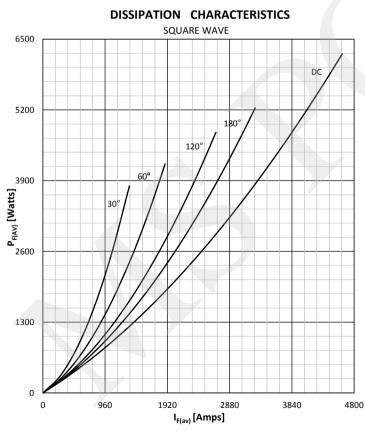
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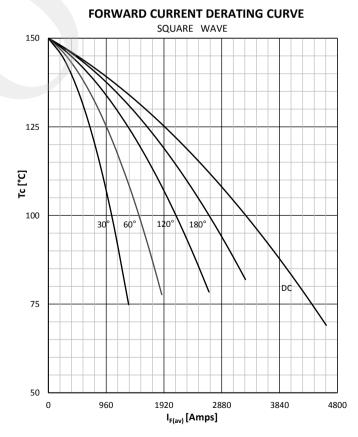
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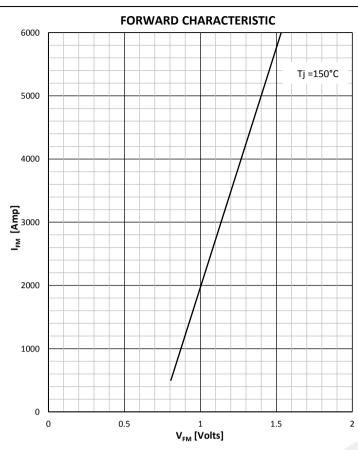
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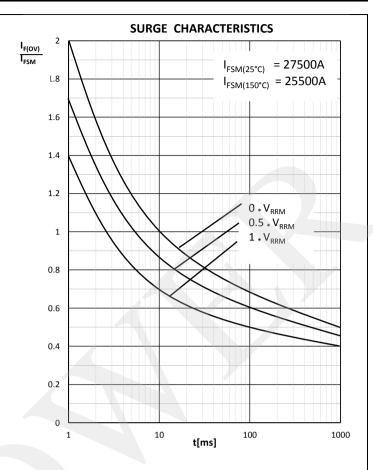
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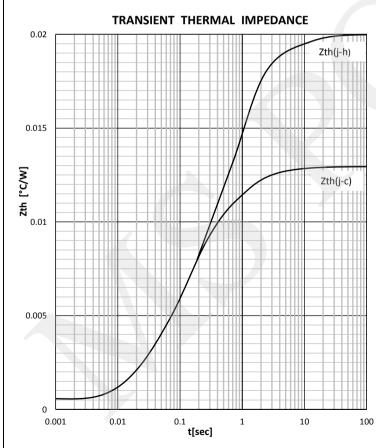
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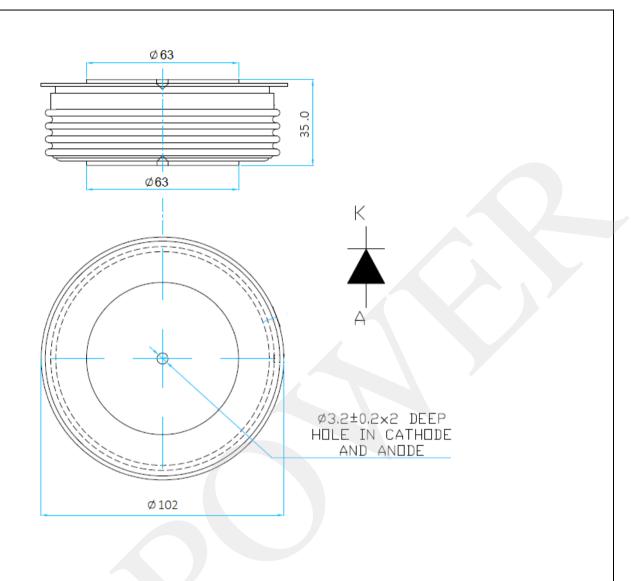


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Outline



MS Power GmbH

Mergenthalerallee 79-81 65760 Eschborn, Germany Web: www.mspowergroup.com Mail: info@mspowergroup.de

Sales & Enquiry:

sales@mspowergroup.de
Technical Support:
solution@mspowergroup.de

After sales Service: service@mspowergroup.de

Phone: +49 (0) 6196/7768 666 Fax: +49 (0) 6196/7757 888



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