MS D3425





Key Parameters

Vrrm	= 1600V
F(AV)	= 3425A
IFSM	= 29000A
V _{F(TO)}	= 0.79V
ΓF	= 0.0877mΩ

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	3425	С	ХХ
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code			

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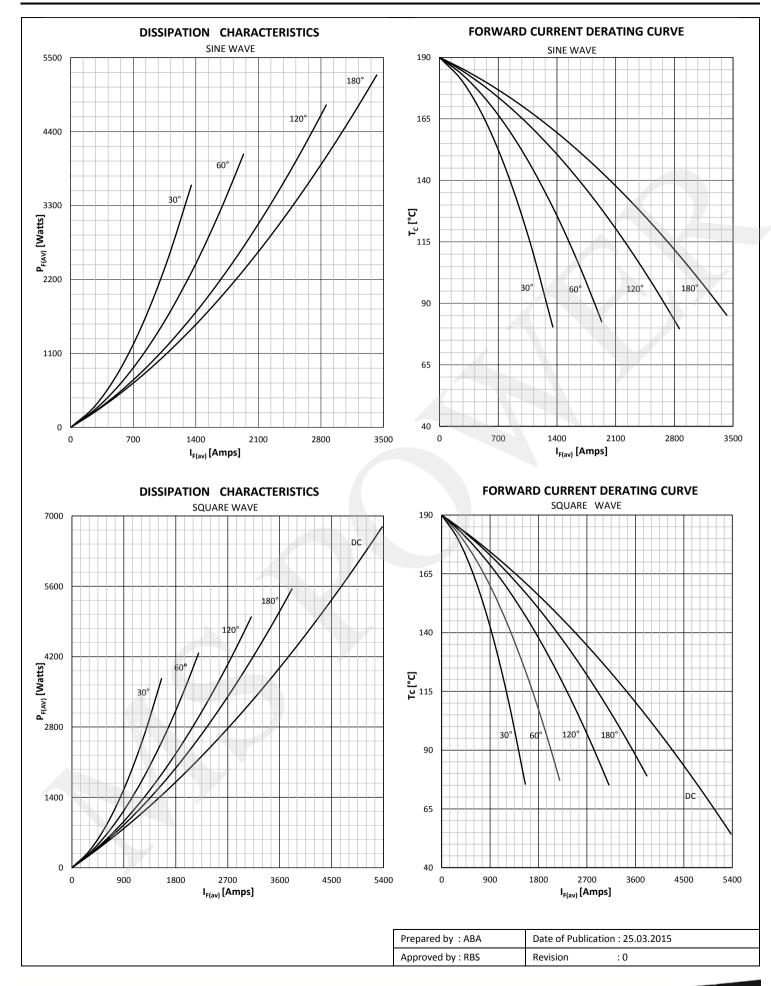


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		190	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		190	400 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	190	150	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin,50 Hz, T _c =85°C, double side cooled 180° sin,50 Hz, T _c =134°C, double side cooled		3425 2200	А
I FRMS	RMS current	T_c =85°C, double side cooled		5377	А
I FSM Surge forward current	Sine wave, 10 ms Without reverse voltage	25	29000	A	
		190	27500	Α	
	Sine wave, 10 ms	25	4205 x 10 ³	A²s	
l² t	2 1	Without reverse voltage	190	3781 x 10 ³	A²s
VF	Forward voltage	On-state current = 2000A	190	0.97	V
V F(TO)	Threshold voltage		190	0.79	V
r _F	Forward slope resistance		190	0.0877	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.020	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.0075	°C/W
Тj	Max. junction temperature			190	°C
T stg	Storage temperature			-40 190	°C
М	Clamping force			24 - 27	KN
W	Weight (Approx.)			500	gm

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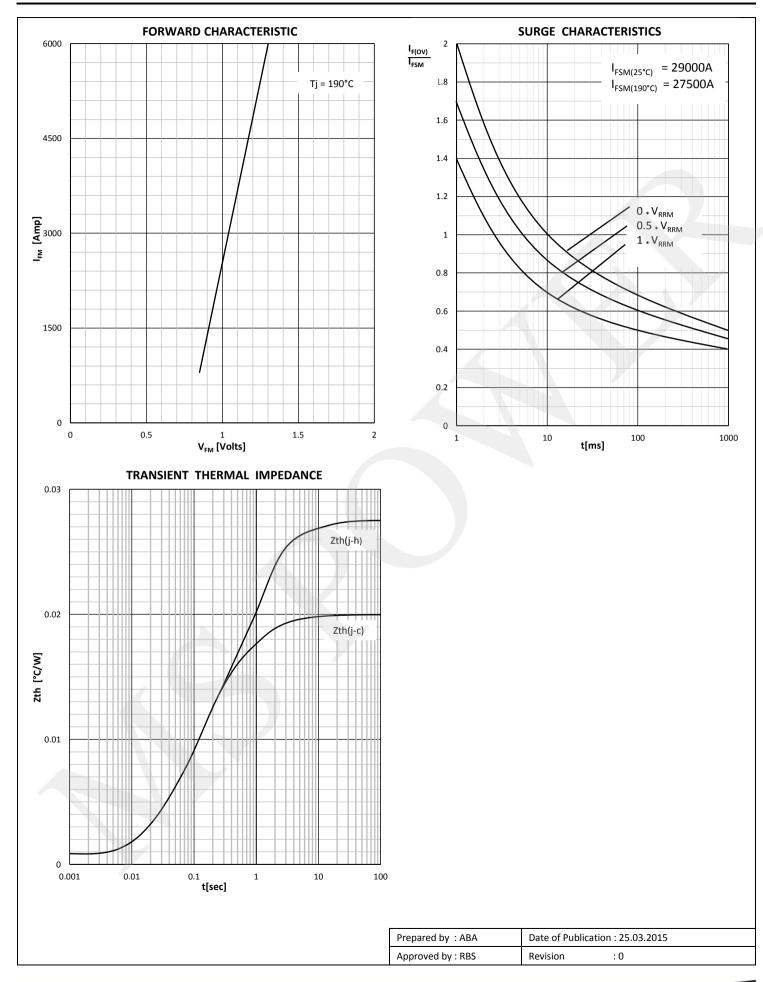
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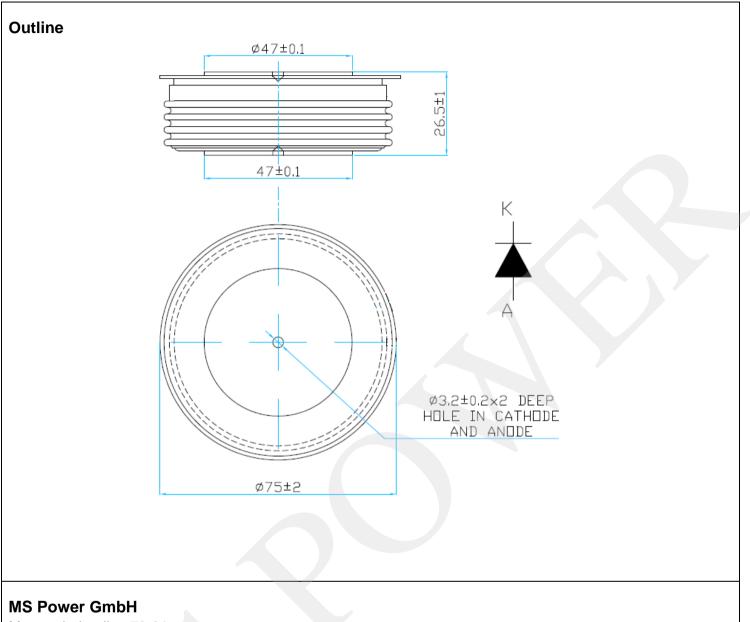
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Mergenthalerallee 79-81 65760 Eschborn, Germany Web: www.mspowergroup.com Mail: info@mspowergroup.de

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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