MS D550

Key Parameters

VRRM

F(AV)

FSM V_{F(TO)}

ΓF

= 100 = 550A 2900/

= 1800V

= 6800A

= 0.75V $= 0.64 \text{m}\Omega$





Features

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

ApplicationsPower Supplies

- Uncontrolled Rectifiers
- Welding
- Induction Heating / Melting

Ordering Information

550	C	XX			
Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}			
Order Code MS D550C18 : 1800V VRRM, Capsule Diode					
	Current code	Current code C - Capsule package with Alloyed silicon technology			

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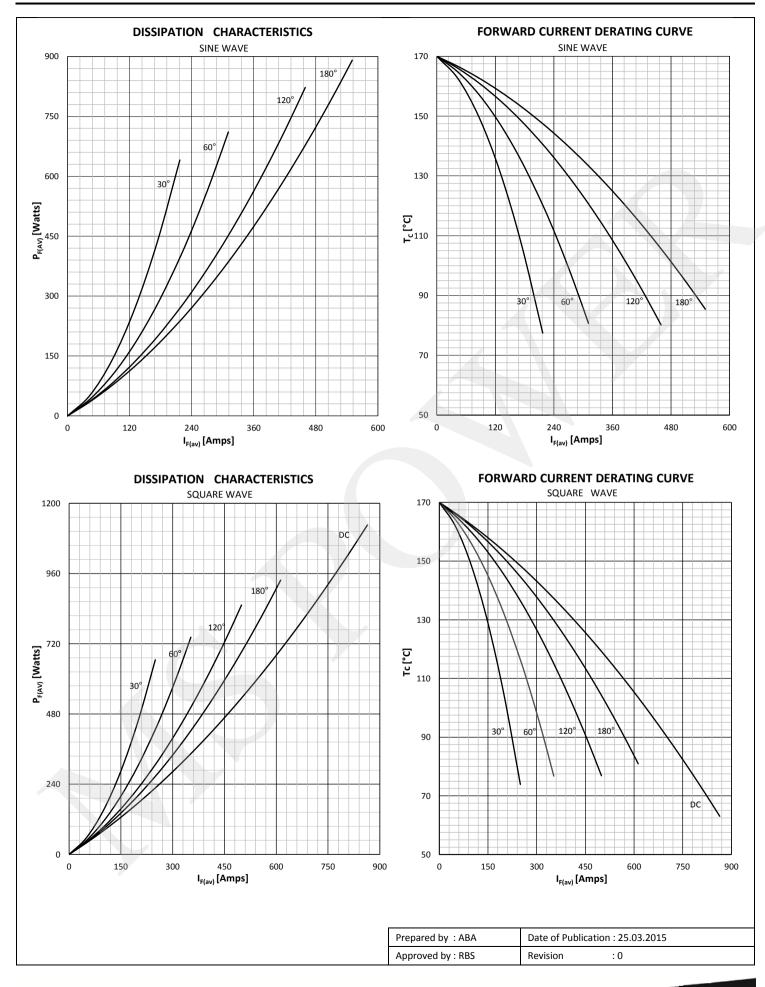
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Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		170	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		170	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM	170	50	mA
CONDU	CTING	· · · · · · · · · · · · · · · · · · ·			
I F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C , double side cooled		550	А
FRMS	RMS current	$T_c=85^{\circ}C$, double side cooled		864	А
	Surge forward current	Sine wave, 10 ms	25	6800	А
I FSM		Without reverse voltage	170	6000	А
			25	231 x 10 ³	A²s
l² t	l² t	Sine wave, 10 ms Without reverse voltage	170	180 x 10 ³	A ² s
Vг	Forward valtage	On-state current = 1600A		1.85	V
	Forward voltage		170		
V F(TO)	Threshold voltage		170	0.75	V
r _F	Forward slope resistance		170	0.64	mΩ
MOUNT					
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.090	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.015	°C/W
Тj	Max. junction temperature			170	°C
T stg	Storage temperature			-40 170	°C
T stg M W	Storage temperature Clamping force Weight (Approx.)			-40 170 5 - 6 70	°C KN gm
М	Clamping force			5 - 6	KN
М	Clamping force			5 - 6	KN
М	Clamping force			5 - 6	KN
М	Clamping force	Prepared by : ABA	Date of Pul	5 - 6	KN gm

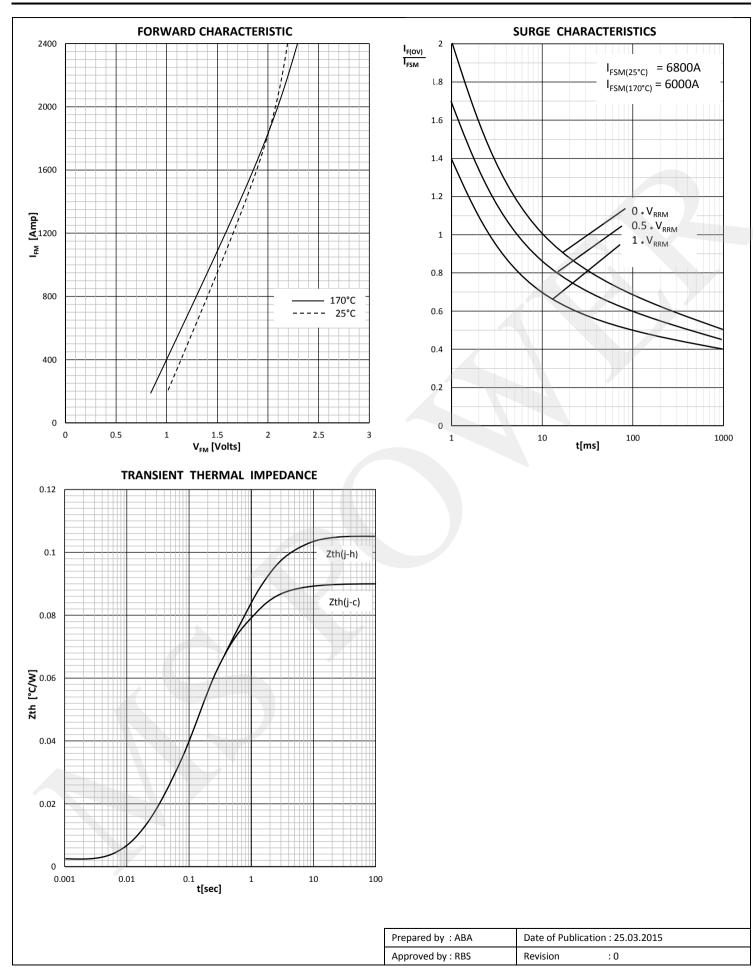
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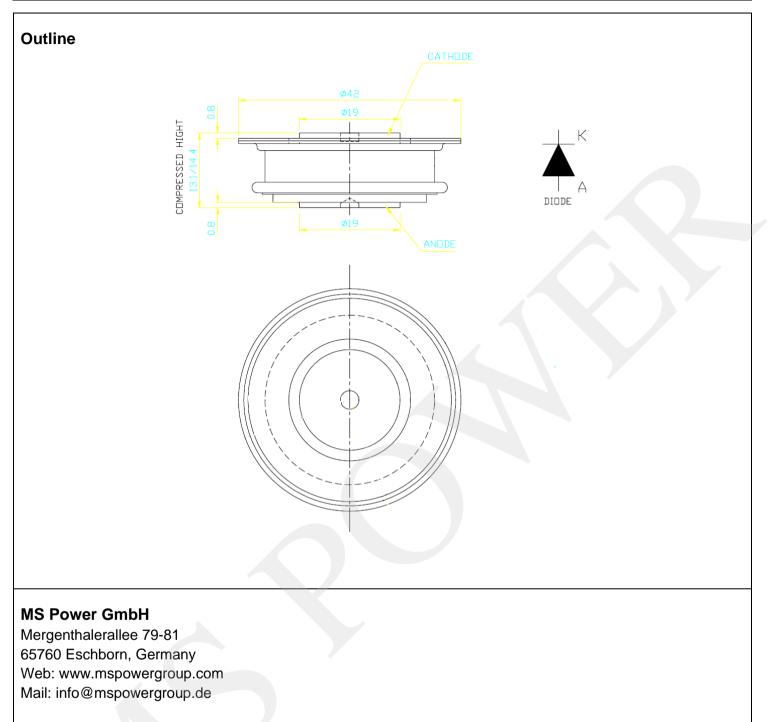
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Sales & Enquiry:

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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-the conclusion of Quality Agreements;

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