



Key Parameters

V_{RRM}	= 800V
$I_{F(AV)}$	= 1540A
I_{FSM}	= 17500A
$V_{F(TO)}$	= 0.75V
r_F	= 0.25mΩ

Features

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

Applications

- Power Supplies
- Uncontrolled Rectifiers
- Welding
- Induction Heating / Melting

Ordering Information

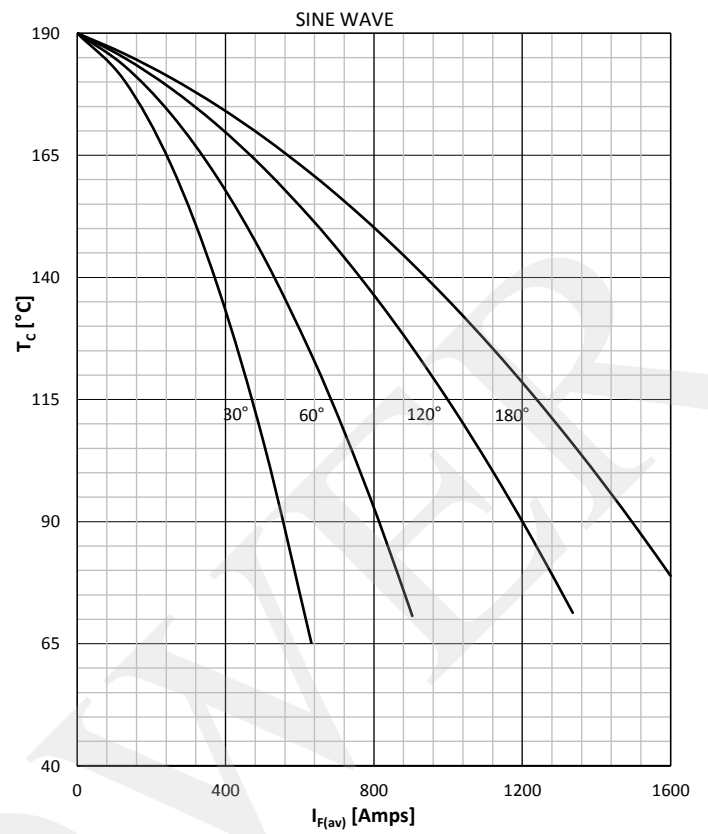
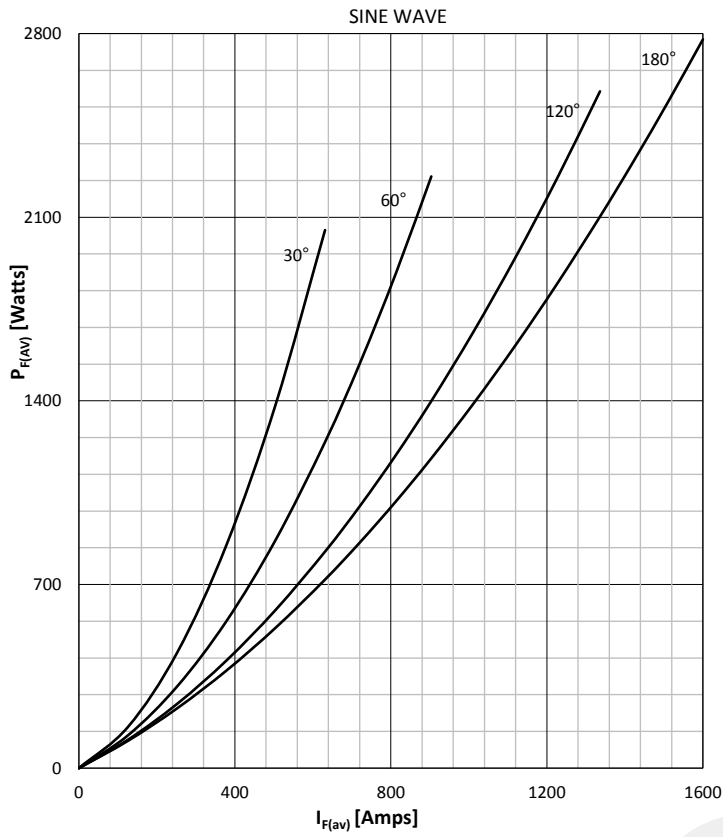
MS D	1540	C	XX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V_{RRM}
Order Code MS D1540C08 : 800V V_{RRM} , Capsule Diode			

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Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		190	200 - 800	V
V _{RSM}	Non-repetitive peak reverse voltage		190	300 - 900	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	190	50	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin, 50 Hz, T _c =85°C, double side cooled 180° sin, 50 Hz, T _c =79°C, double side cooled		1540 1600	A
I _{FRMS}	RMS current	T _c =79°C, double side cooled		2512	A
I _{FSM}	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	17500	A
			190	16000	A
I ² t	I ² t	Sine wave, 10 ms Without reverse voltage	25	1531 x 10 ³	A ² s
			190	1280 x 10 ³	A ² s
V _F	Forward voltage	On-state current = 3000A	190	1.55	V
V _{F(TO)}	Threshold voltage		190	0.75	V
r _F	Forward slope resistance		190	0.25	mΩ
MOUNTING					
R _{th(j-c)}	Thermal impedance, sin 180°	Junction to case, double side cooled		0.04	°C/W
R _{th(c-h)}	Thermal impedance	Case to heatsink, double side cooled		0.01	°C/W
T _j	Max. junction temperature			190	°C
T _{stg}	Storage temperature			-40 190	°C
M	Clamping force			9.8	KN
W	Weight (Approx.)			90	gm
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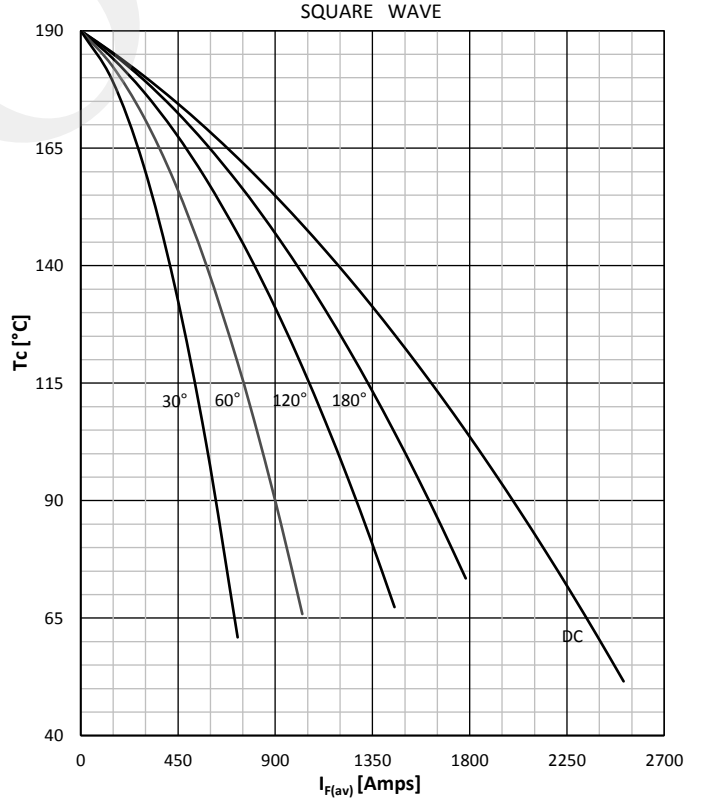
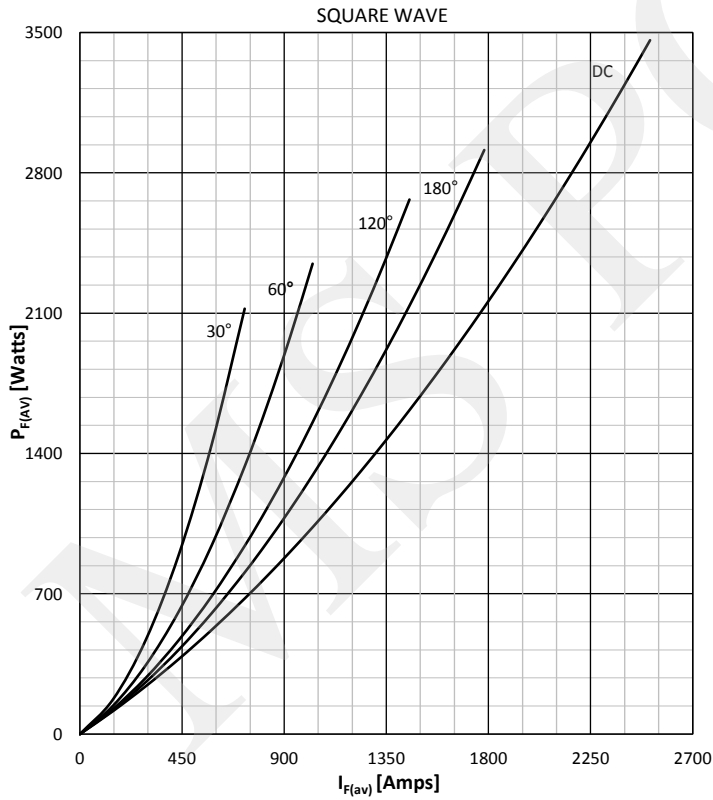
DISSIPATION CHARACTERISTICS

FORWARD CURRENT DERATING CURVE



DISSIPATION CHARACTERISTICS

FORWARD CURRENT DERATING CURVE



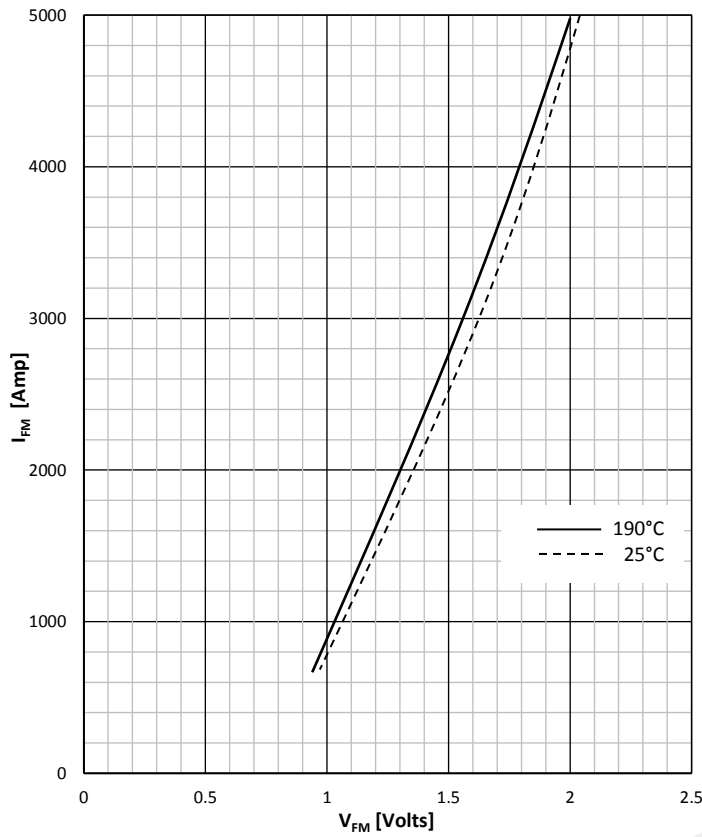
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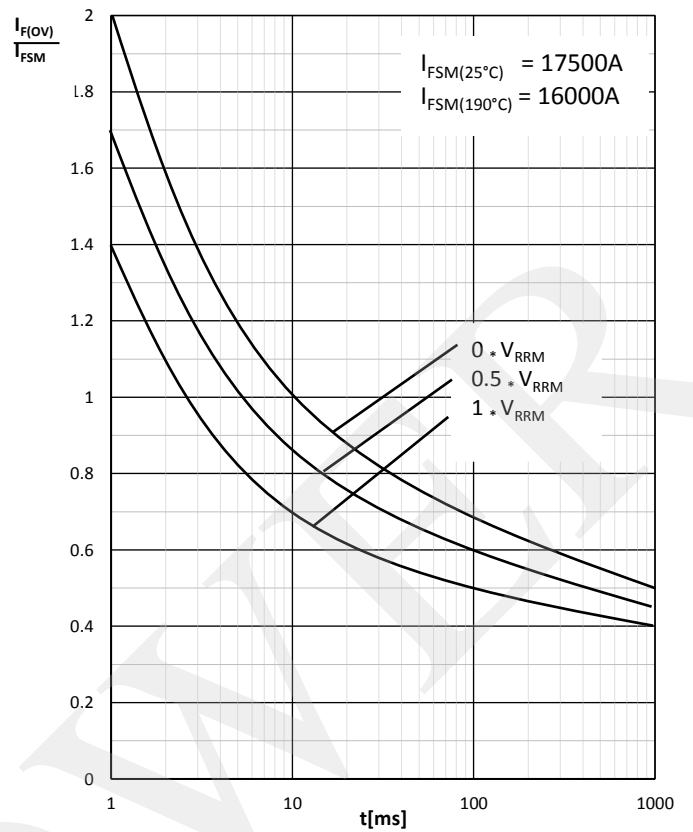
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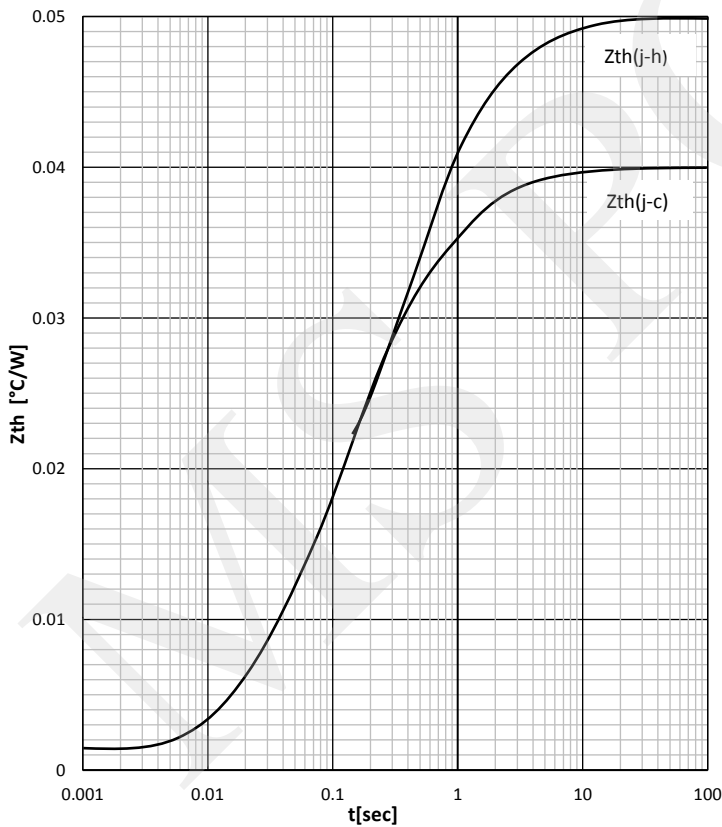
FORWARD CHARACTERISTIC



SURGE CHARACTERISTICS

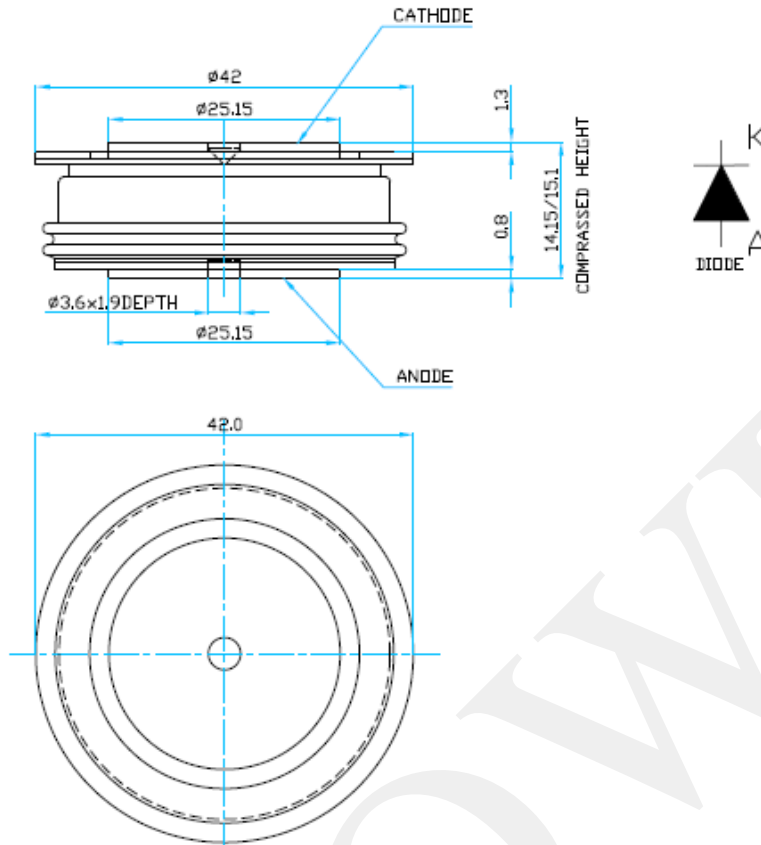


TRANSIENT THERMAL IMPEDANCE



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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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