



Key Parameters

V_{RRM}	= 1800V
$I_{F(AV)}$	= 165A
I_{FSM}	= 2500A
$V_{F(TO)}$	= 0.85V
r_F	= 1.3mΩ

Features

- Full blocking capability over wide temperature range
- Hermetic metal case with glass insulator
- Threaded stud

Applications

- Power Supplies
- Uncontrolled Rectifiers
- Battery Chargers

Ordering Information

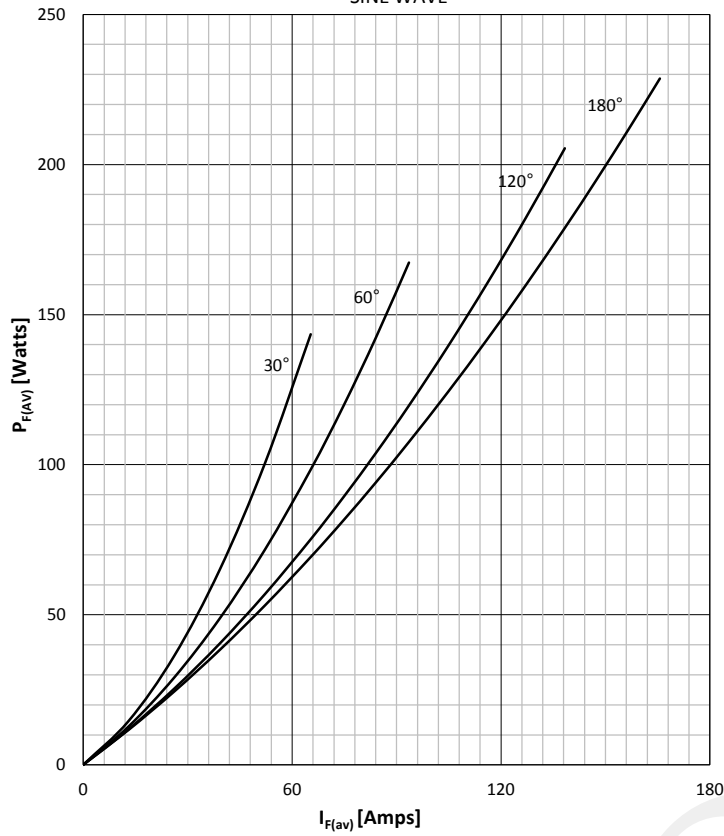
MS D	132	N	XX	M	B
Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V_{RRM}	Stud Threads M = Stud M12 X 1.75	Technology B = Solder Bond Technology
Order Code MS D132N16MB : 1600V V_{RRM} , Metric Stud, Diode with stud Cathode					

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Symbol	Characteristic	Conditions	T _j [°C]	Value	Unit
BLOCKING					
V _{RRM}	Repetitive peak reverse voltage		180	200 - 1800	V
V _{RSM}	Non-repetitive peak reverse voltage		180	300 - 1900	V
I _{RRM}	Repetitive peak reverse current	V = V _{RRM}	180	15	mA
CONDUCTING					
I _{F(AV)}	Mean forward current	180° sin ,50 Hz, T _c =100°C T _c =125°C		165 130	A
I _{FRMS}	RMS current			260	A
I _{FSM}	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	2500	A
			180	2000	A
I ² t	I ² t	Sine wave, 10 ms Without reverse voltage	25	31250	A ² s
			180	20000	A ² s
V _F	Forward voltage	On-state current = 520A	180	1.53	V
V _{F(TO)}	Threshold voltage		180	0.85	V
r _F	Forward slope resistance		180	1.3	mΩ
MOUNTING					
R _{th(j-c)}	Thermal impedance, sin 180°	Junction to case		0.35	°C/W
R _{th(c-h)}	Thermal impedance	Case to heatsink		0.08	°C/W
T _j	Max. junction temperature			180	°C
T _{stg}	Storage temperature			-40 180	°C
M	Mounting torque			10 - 13	NM
W	Weight (Approx.)			110	gm
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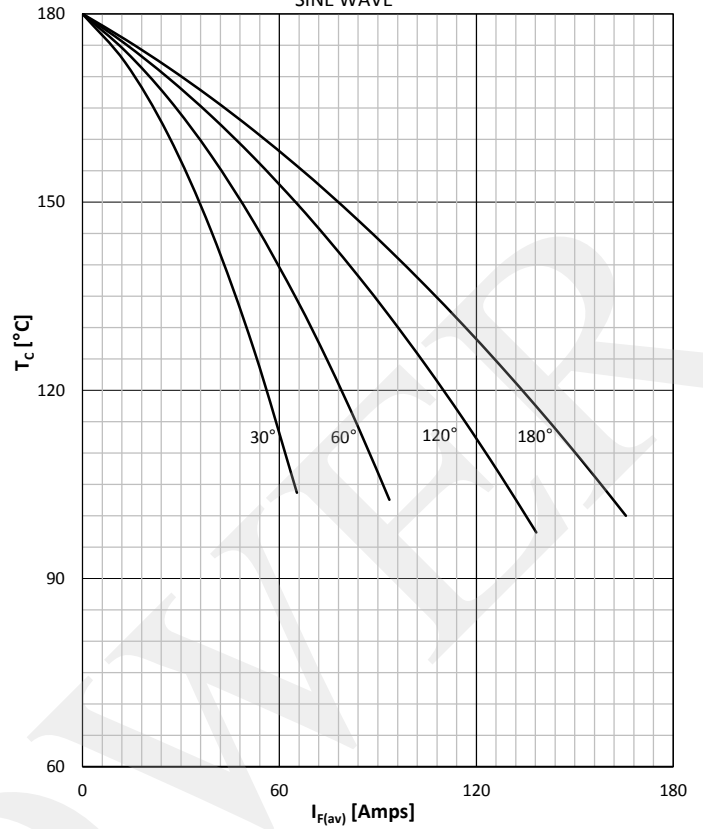
DISSIPATION CHARACTERISTICS

SINE WAVE



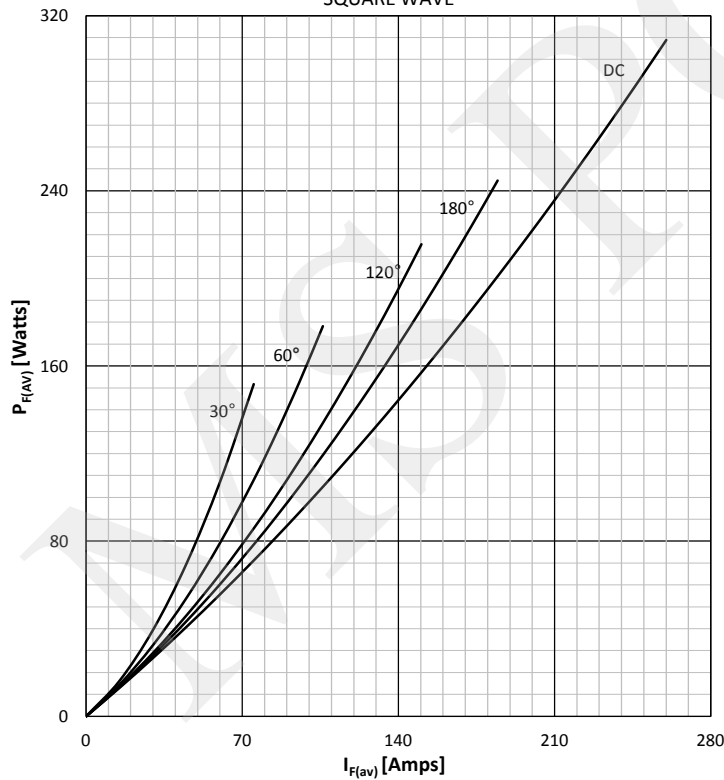
FORWARD CURRENT DERATING CURVE

SINE WAVE



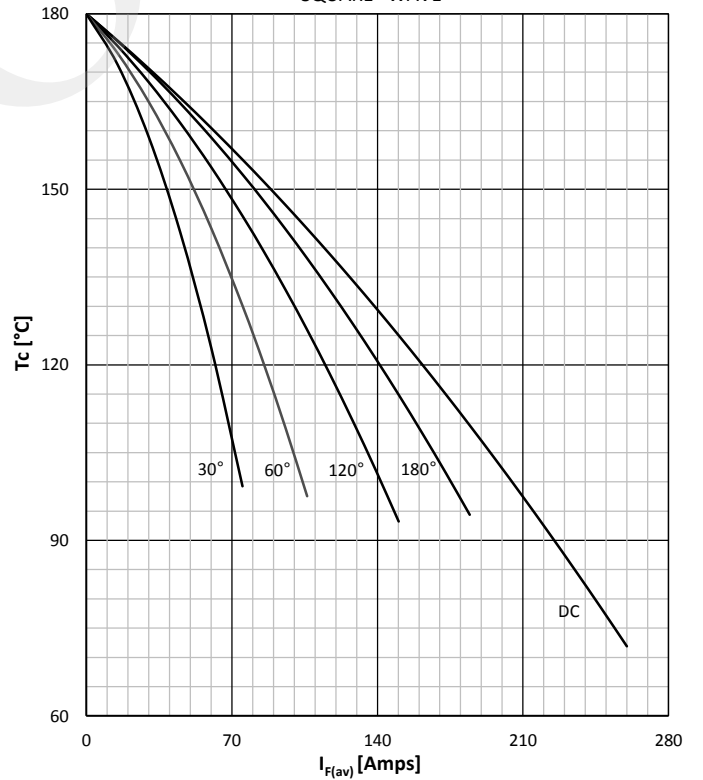
DISSIPATION CHARACTERISTICS

SQUARE WAVE



FORWARD CURRENT DERATING CURVE

SQUARE WAVE



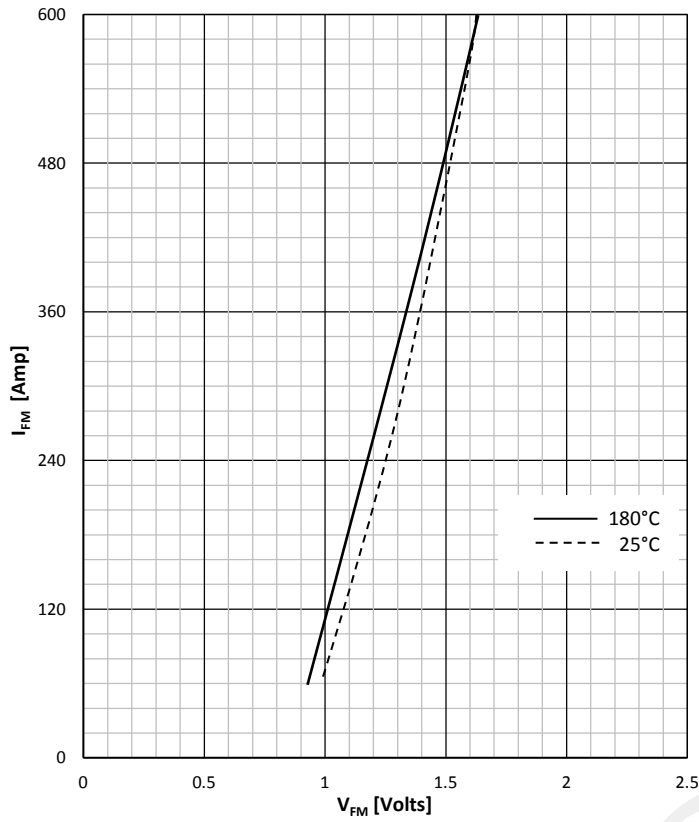
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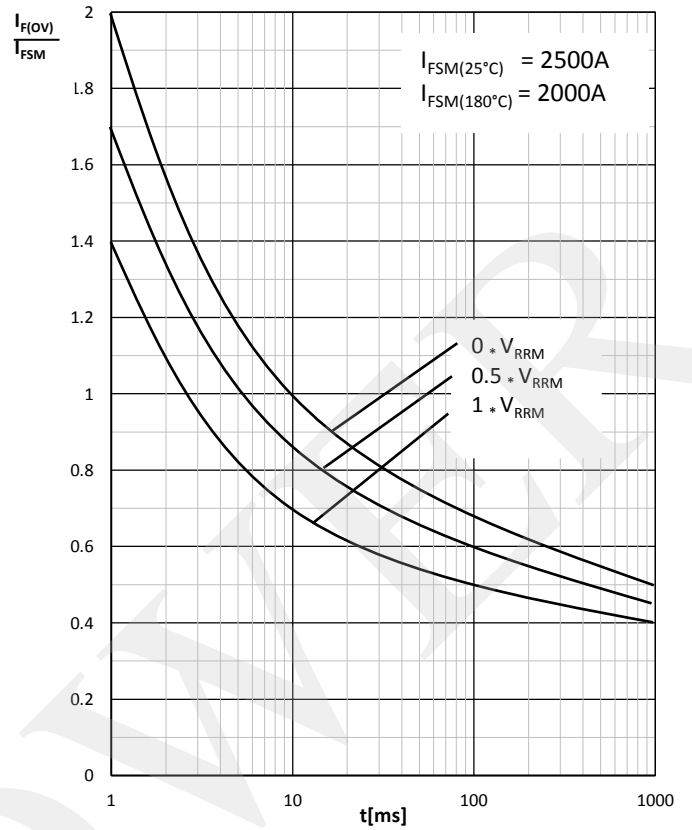
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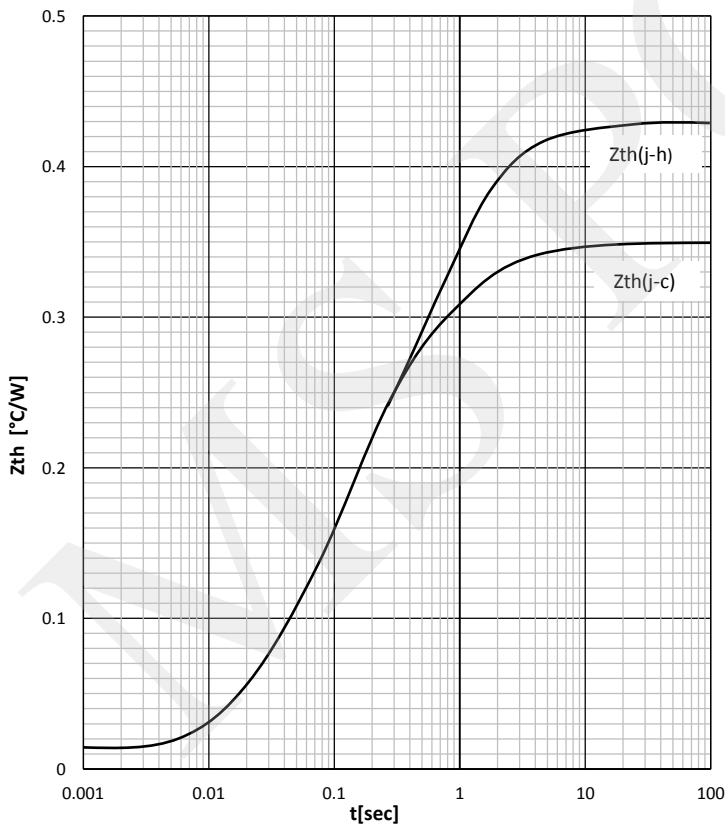
FORWARD CHARACTERISTIC



SURGE CHARACTERISTICS



TRANSIENT THERMAL IMPEDANCE



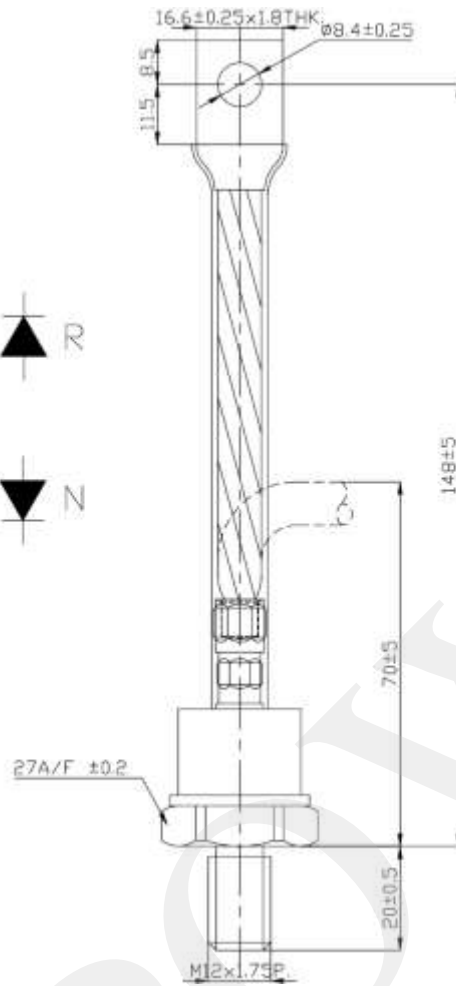
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Outline



MS Power GmbH
Mergenthalerallee 23A
65760 Eschborn, Deutschland

E-mail : info@msspowergroup.de

www.msspowergroup.com

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