Technical Information Rectifier Diode Modules

MS DD120





Key Parameters

Ney i alameters				
VRRM	= 1800V			
F(AV)	= 120A			
FSM	= 2550A			
V _{F(TO)}	= 0.85V			
ΓF	= 1.4mΩ			
ľF	= 1.4m0			

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Hard soldered joints for high reliability

Applications

- Power Supplies
- Uncontrolled Rectifiers
- Field supply for DC motors
- Battery Chargers
- UPS

Ordering Information

MS	DD	120	S	ХХ		XX
Fixed code	DD- Diode- Diode Module	Current Code	Technology S = Solder Bond Technolo	Voltage Co Code X 100 =		None - Standard connection AA - Common Anode KK - Common Cathode
Order 0	Order Code MS DD120S18KK : 1800V VRRM, Common Cathode , Diode-Diode Module					
	Prepared by : ABA Date of Publication : 25.03.2015					
			Appro	red by : RBS	Revision	:0



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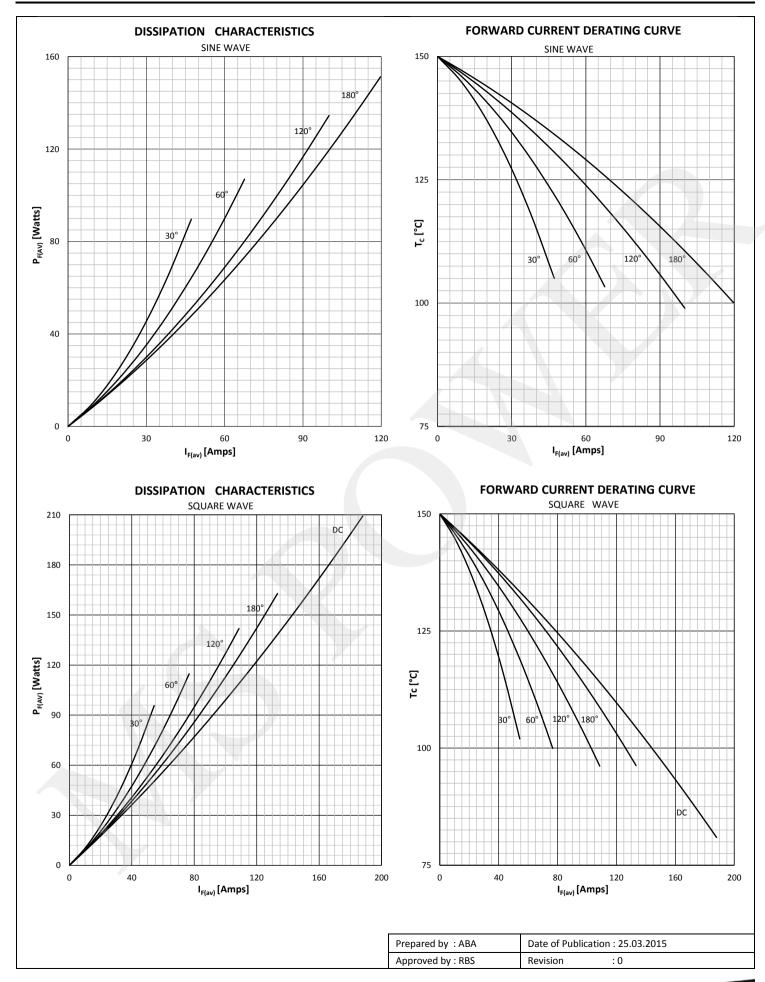


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		150	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V rrm	150	15	mA
CONDUC	CTING				
IF(AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C		120	А
I FRMS	RMS current			188	А
I FSM		Sine wave, 10 ms Without reverse voltage	25	2550	А
	Surge forward current		150	2050	А
		Sine wave, 10 ms Without reverse voltage	25	32500	A²s
² t ²	l ² t		150	21000	A²s
VF	Forward voltage	On-state current = 350A	25	1.44	V
V F(TO)	Threshold voltage		150	0.85	V
r _F	Forward slope resistance		150	1.4	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.33 0.17	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.2 0.1	°C/W
Тj	Max. junction temperature			150	°C
T stg	Storage temperature			-40 125	°C
VISOL	Insulation test voltage, RMS	F=50Hz, 1min		2.5	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			3 ± 15%	Nm
W	Weight (Approx.)			105	gm

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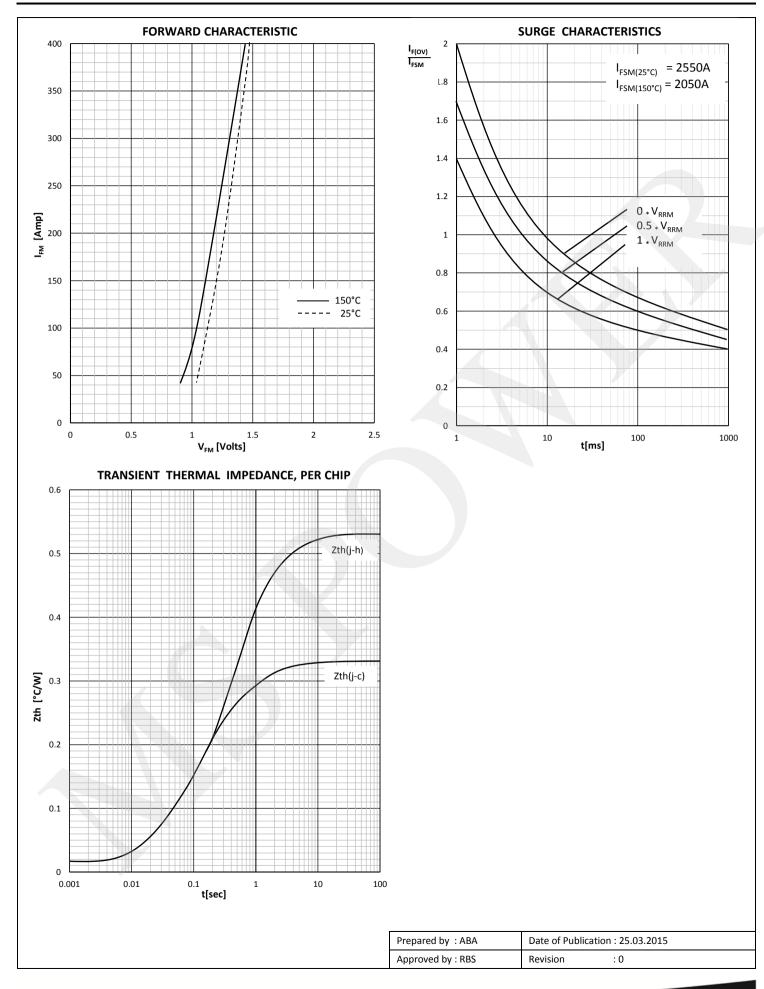
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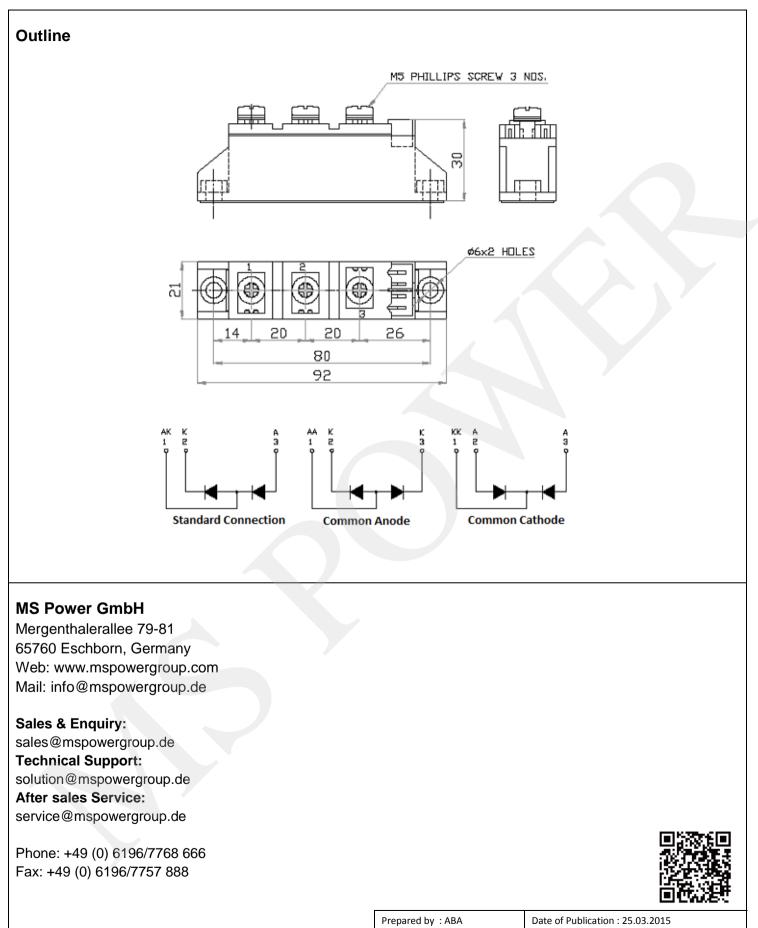




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