MS DD55





### Key Parameters

Vrrm	= 1800V
F(AV)	= 55A
IFSM	= 1250A
VF(TO)	= 0.85V
ΓF	= 4.0mΩ

#### 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	55	S	ХХ	ХХ
Fixed code	DD- Diode- Diode Module	Current Code	Technology S = Solder Bond Technology	Voltage Code Code X 100 = V <sub>RRM</sub>	None - Standard connection AA - Common Anode KK - Common Cathode
Order Code MS DD55S18KK : 1800V V <sub>RRM</sub> , Common Cathode , Diode-Diode Module					

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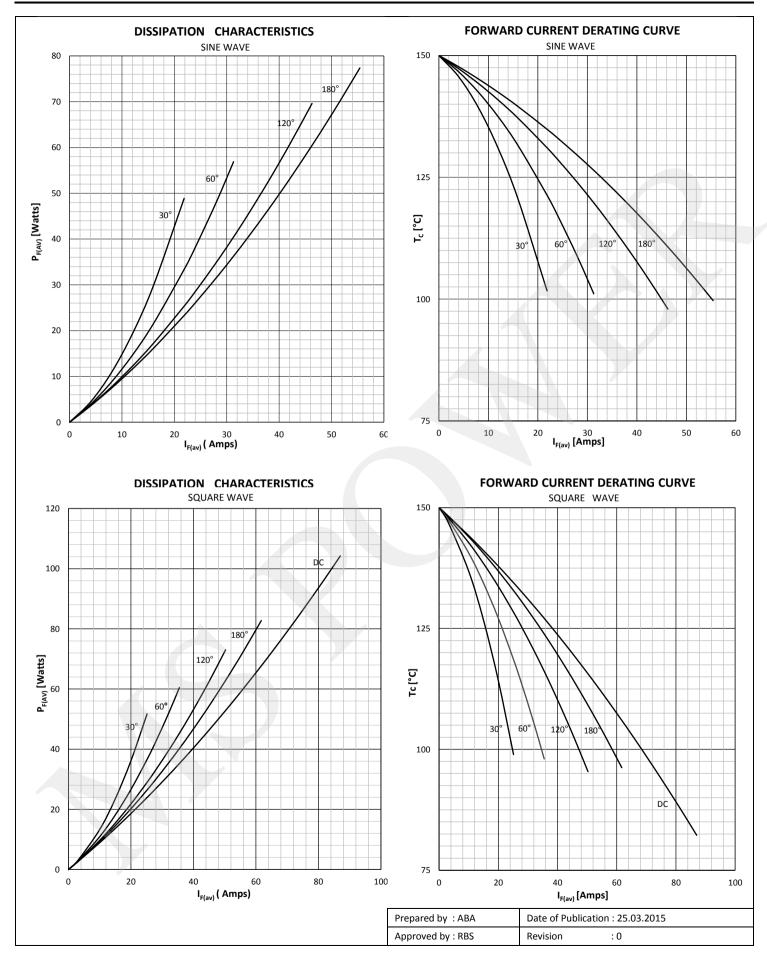


Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		150	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V rrm	150	5	mA
CONDUC	CTING				
IF(AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> =100°C		55	А
I FRMS	RMS current			87	А
		Sine wave, 10 ms	25	1250	Α
I FSM	Surge forward current	Without reverse voltage	150	1150	А
		Sine wave, 10 ms	25	7800	A²s
l² t	I <sup>2</sup> t I <sup>2</sup> t Sine wave, 10 ms   Without reverse voltage		150	6612	A²s
VF	Forward voltage	On-state current = 175A	25	1.60	V
V F(TO)	Threshold voltage		150	0.85	V
r <sub>F</sub>	Forward slope resistance		150	4.0	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.65 0.33	°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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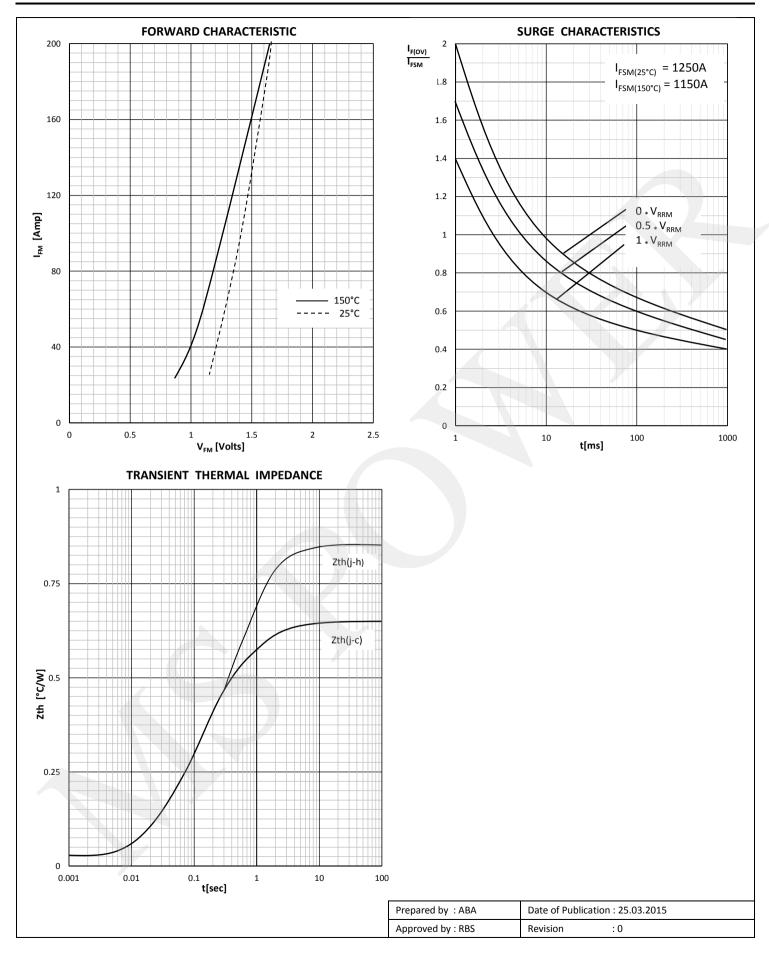
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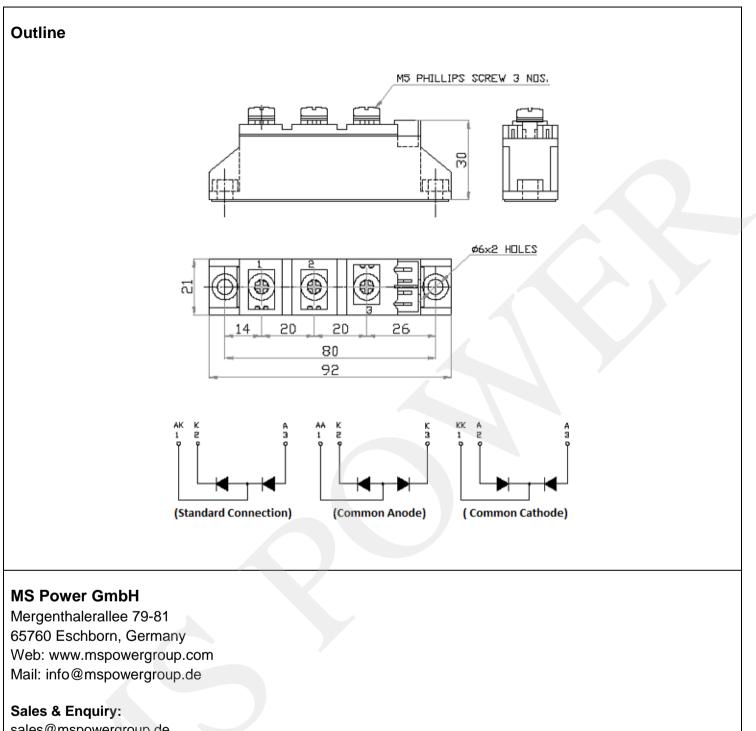
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