**MS DD380** 





#### Key Parameters

Ney i alameters			
Vrrm	= 1800V		
F(AV)	= 380A		
IFSM	= 14000A		
V <sub>F(TO)</sub>	= 0.75V		
ΓF	= 0.32mΩ		

#### Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal baseplate
- Pressure contacts technology for high reliability
- UL Recognized, file no. E505556

## ApplicationsPower Supplies

- Uncontrolled Rectifiers .
- Field supply for DC motors
- Battery Chargers
- UPS

### **Ordering Information**

MS	DD	380	К	18
Fixed code	DD- Diode- Diode Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V <sub>RRM</sub>
Order Code	MS DD380K18 : 1800V VRRM,	Diode-Diod	le Module	
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			Approved by : RBS	Revision : 1

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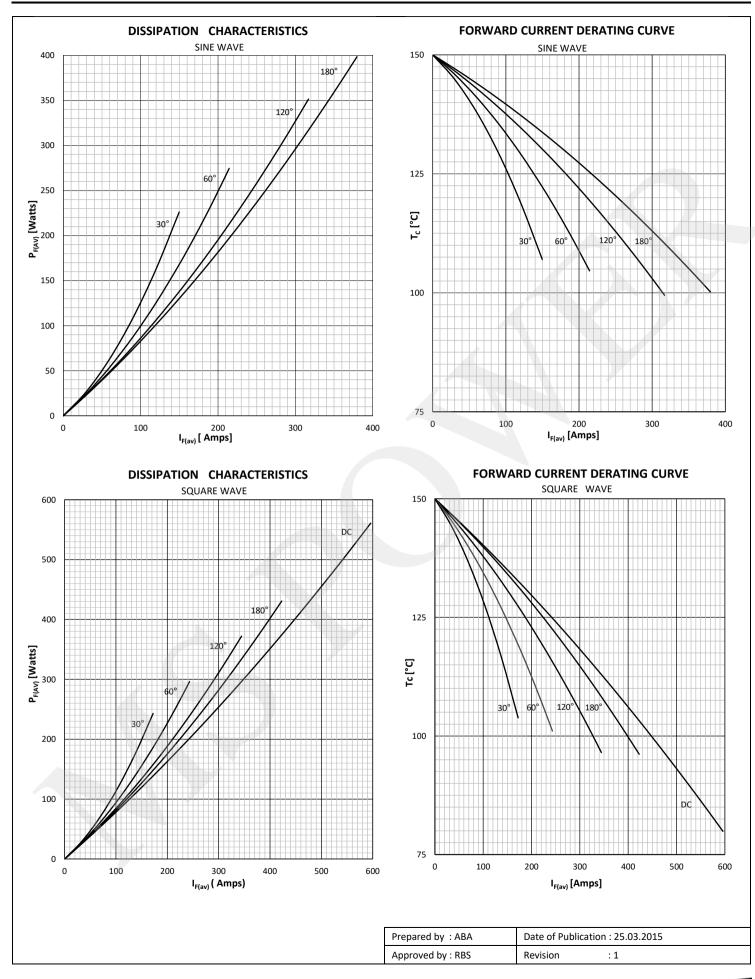


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	1800	V
V RSM	Non-repetitive peak reverse voltage		150	1900	V
I RRM	Repetitive peak reverse current	V= V RRM	150	30	mA
CONDU	CTING				
IF(AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> =100°C		380	А
I FRMS	RMS current			596	А
		Sine wave, 10 ms	25	14000	Α
I FSM	Surge forward current	Without reverse voltage	150	11500	A
		Sine wave, 10 ms Without reverse voltage	25	980 x 10 <sup>3</sup>	A²s
l² t	l² t		150	661 x 10 <sup>3</sup>	A <sup>2</sup> s
VΓ	Forward voltage	On-state current = 1500A	25	1.40	V
V F(TO)	Threshold voltage		150	0.75	V
r <sub>F</sub>	Forward slope resistance		150	0.32	mΩ
MOUNT	ING				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.125 0.063	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.04 0.02	°C/W
Тj	Max. junction temperature			150	°C
T stg	Storage temperature			-40 150	°C
VISOL	Insulation test voltage, RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			6 ± 15%	Nm
M2	Terminal connection torque			12 ± 10%	Nm
W	Weight (Approx.)			650	gm
				E505556	

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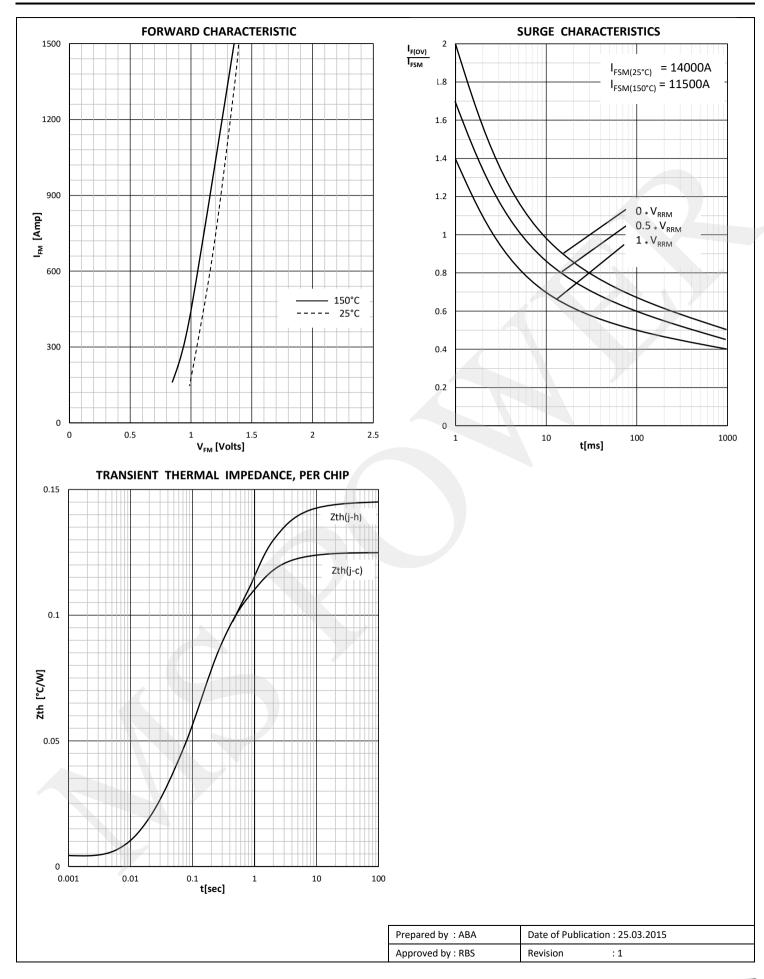
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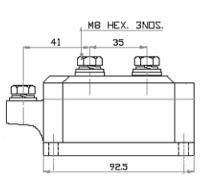




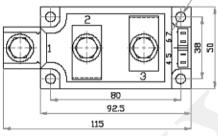
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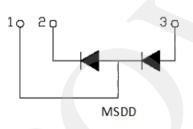






Ø6x4 HOLES





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# **MS DD380**



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