### **MS DD350**





### **Key Parameters**

 $V_{\mathsf{RRM}}$ = 1800V= 350AI<sub>F(AV)</sub> = 13000A**I**FSM = 0.75 V $V_{F(TO)}$  $= 0.40 \text{m}\Omega$ ГF

#### **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

## Applications Power Supplies

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

### **Ordering Information**

MS	DD	350	K	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 DD350K18: 1800V V <sub>RRM</sub> , Diode-Diode Module				

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# Technical Information Rectifier Diode Modules

## **MS DD350**



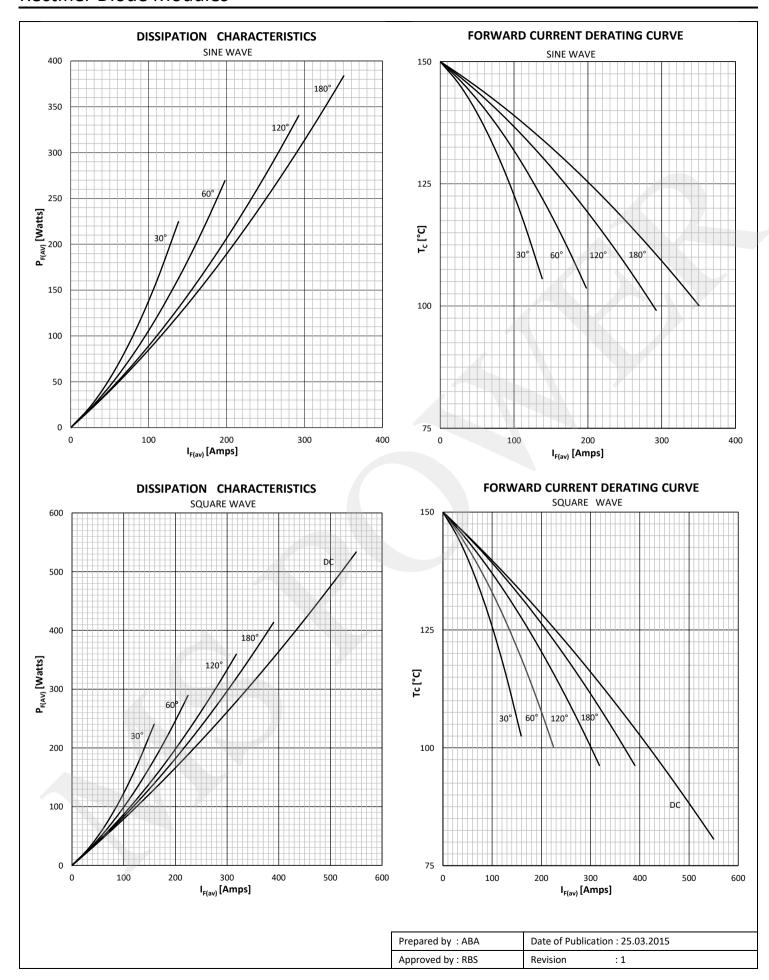
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		150	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM	150	30	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> =100°C		350	Α
I FRMS	RMS current			550	А
	Surge forward current	Sine wave, 10 ms	25	13000	Α
l fsm		Without reverse voltage	150	11000	А
	l² t	Sine wave, 10 ms Without reverse voltage	25	845 x 10 <sup>3</sup>	A²s
l² t			150	605 x 10 <sup>3</sup>	A <sup>2</sup> s
VF	Forward voltage	On-state current = 1000A	25	1.35	V
V F(TO)	Threshold voltage		150	0.75	V
r <sub>F</sub>	Forward slope resistance		150	0.40	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.13 0.07	°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
$V_{ISOL}$	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
<b>A</b>	File No.			E505556	

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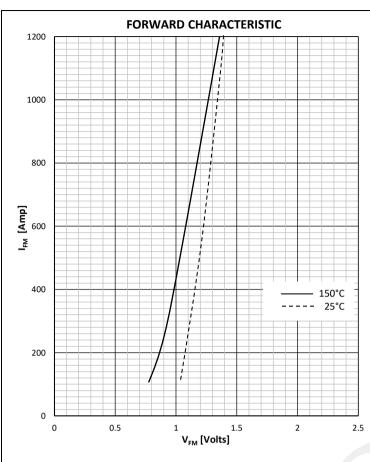


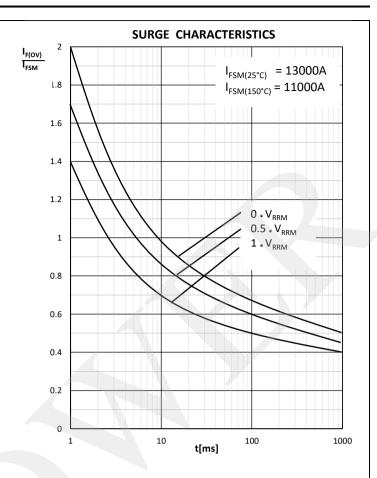


# Technical Information Rectifier Diode Modules

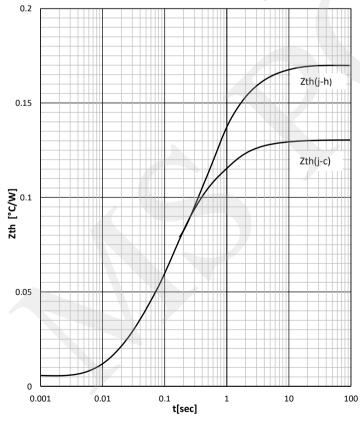
## **MS DD350**









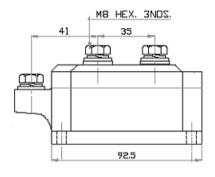


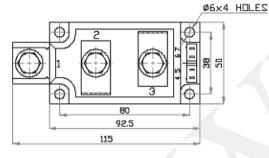
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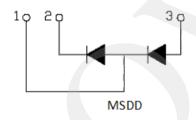
### **MS DD350**



### **Outline**







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## Technical Information Rectifier Diode Modules

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