### **MS DD321**





### **Key Parameters**

 $V_{\mathsf{RRM}}$ = 2800 V= 321AI<sub>F(AV)</sub> = 9800A**I**FSM  $V_{F(TO)}$ = 0.85 V $= 0.45 \text{m}\Omega$ 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

## ApplicationsPower Supplies

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

### **Ordering Information**

MS	DD	321	K	28
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 DD321K28: 2800V V <sub>RRM</sub> , Diode-Diode Module				

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# Technical Information Rectifier Diode Modules

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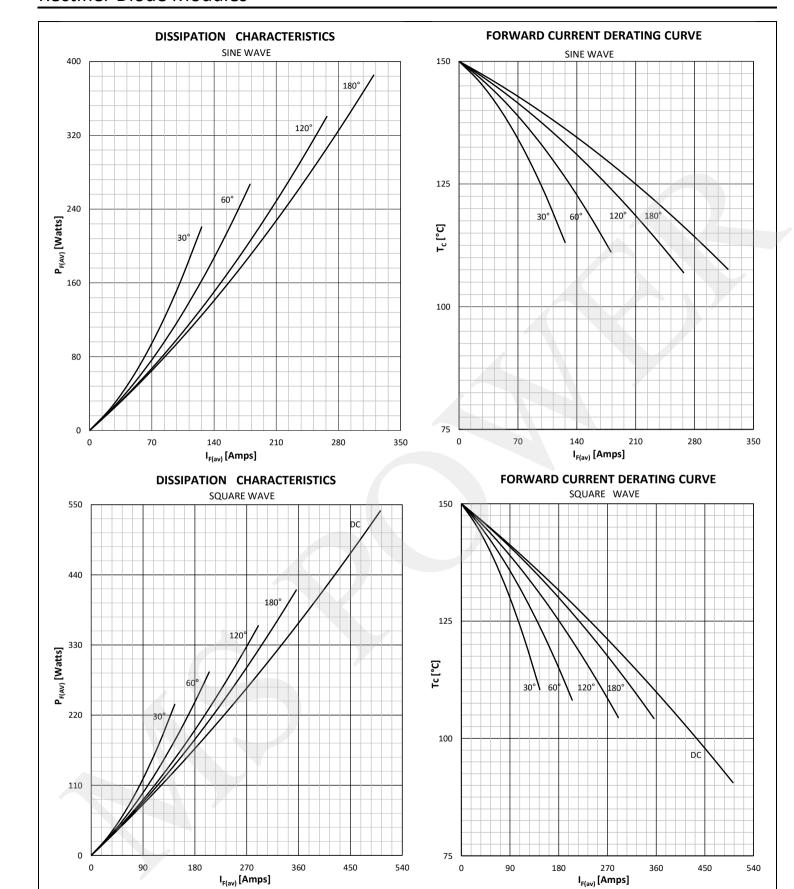
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	2000 - 2800	V
V RSM	Non-repetitive peak reverse voltage		150	2100 - 2900	V
I RRM	Repetitive peak reverse current	V= V rrm	150	30	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> =107°C 180° sin ,50 Hz, T <sub>c</sub> =100°C		321 358	А
I FRMS	RMS current	T <sub>c</sub> =107°C		504	Α
Leon	Surge femueral current	Sine wave, 10 ms	25	9800	Α
I FSM	Surge forward current	Without reverse voltage	150	8500	Α
10.4		Sine wave. 10 ms	25	480 x 10 <sup>3</sup>	A²s
l² t	I <sup>2</sup> t	Without reverse voltage	150	361 x 10 <sup>3</sup>	A <sup>2</sup> s
VF	Forward voltage	On-state current = 785A	25	1.40	V
V F(TO)	Threshold voltage		150	0.85	V
r <sub>F</sub>	Forward slope resistance		150	0.45	mΩ
MOUNTI	ING				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.11 0.055	°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 <sub>ISOL</sub>	Insulation test voltage, RMS	F=50Hz, 1min		3.0	KV
M1	Mounting torque			5 ± 15%	Nm
M2	Terminal connection torque			12 ± 10%	Nm
W	Weight (Approx.)			700	gm
<b>A</b>	File No.			E505556	

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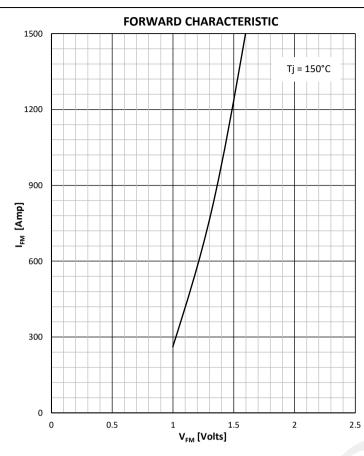
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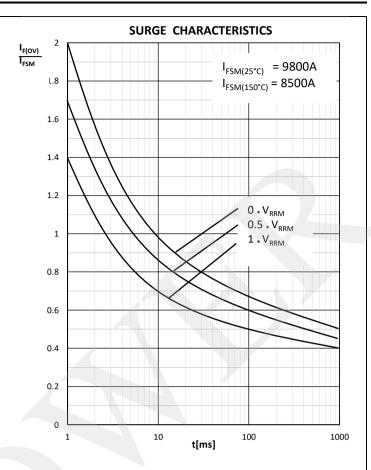
Revision

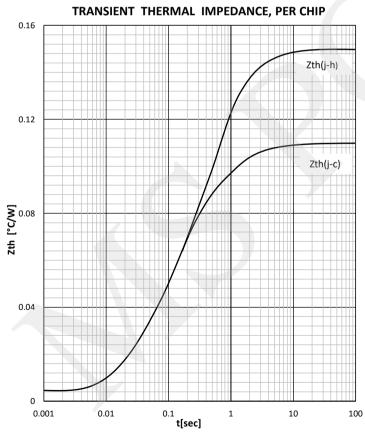
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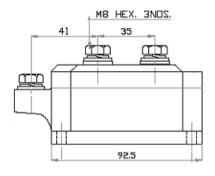


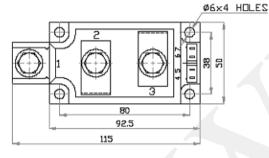
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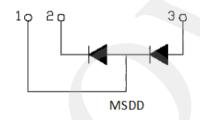
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#### **Outline**







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