MS DZ104





Key Parameters

 V_{RRM} = 1800V= 104A $I_{F(AV)}$ = 2900A I_{FSM} $V_{F(TO)}$ = 0.85V $= 1.5 \text{m}\Omega$ r _F

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	DZ	104	S	XX
Fixed code	DZ- Rectifier Diode Module	Current Code	Technology S = Solder Bond Technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS DZ104S18: 1800V V _{RRM} , Rectifier Diode Module				

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Technical Information Rectifier Diode Modules

MS DZ104



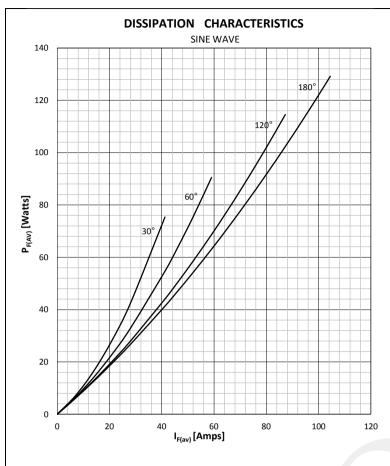
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		150	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM	150	15	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C		104	А
I FRMS	RMS current			164	А
	0 6 1	Sine wave, 10 ms	25	2900	Α
l fsm	Surge forward current	Without reverse voltage	150	2500	А
		Sine wave, 10 ms Without reverse voltage	25	42050	A²s
l² t	I² t		150	31250	A ² s
VF	Forward voltage	On-state current = 300A	25	1.40	V
V F(TO)	Threshold voltage		150	0.85	V
r _F	Forward slope resistance		150	1.5	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per module		0.39	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per module		0.1	°C/W
Тj	Max. junction temperature			150	°C
T stg	Storage temperature			-40 125	°C
V _{ISOL}	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

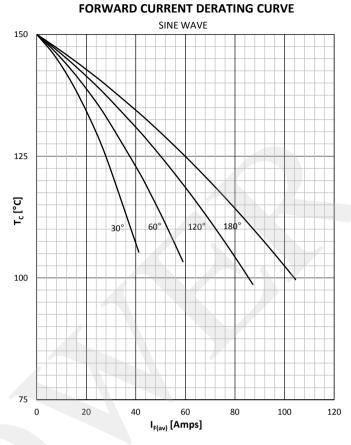
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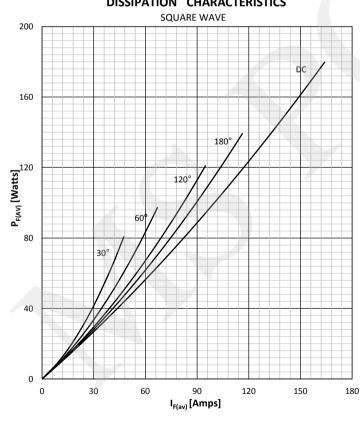
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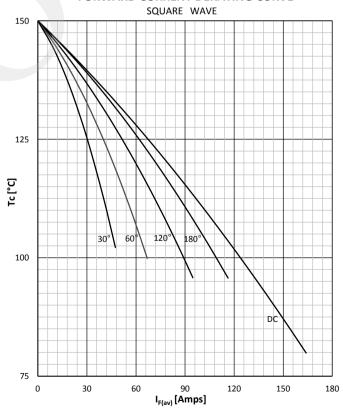




DISSIPATION CHARACTERISTICS



FORWARD CURRENT DERATING CURVE

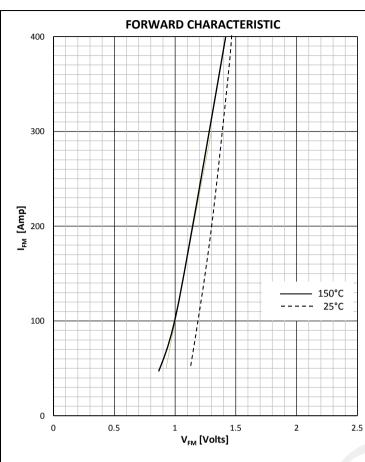


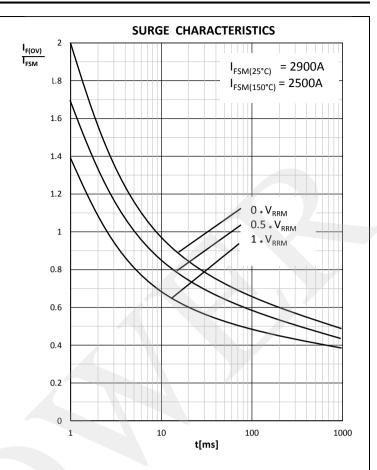
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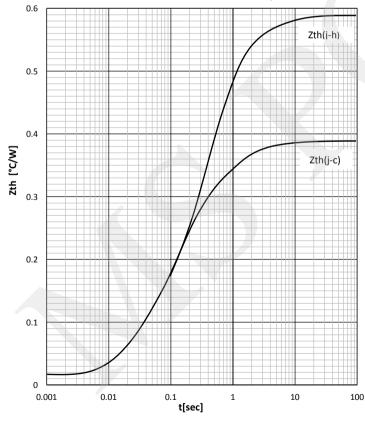
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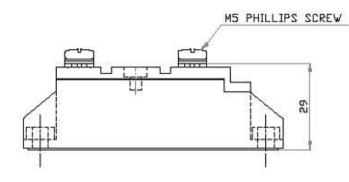


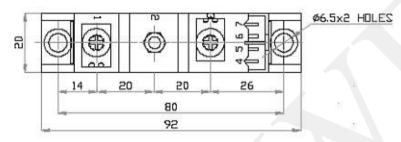
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Outline









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