MS DD104





Key Parameters

 V_{RRM} = 1800V= 104AI_{F(AV)} = 2500A**I**FSM $V_{F(TO)}$ = 0.85 V $= 1.5 m\Omega$ ГF

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	104	S	ХX	ХX
Fixed code	DD- Diode- Diode Module	Current Code	Technology S = Solder Bond Technology	Voltage Code Code X 100 = V _{RRM}	None - Standard connection AA - Common Anode KK - Common Cathode
Order (Order Code, MS DD104S19 KK + 1900V, Very, Common Cathoda, Diede Diede Medule				

Order Code MS DD104S18 KK: 1800V VRRM, Common Cathode, Diode-Diode Module

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MS DD104

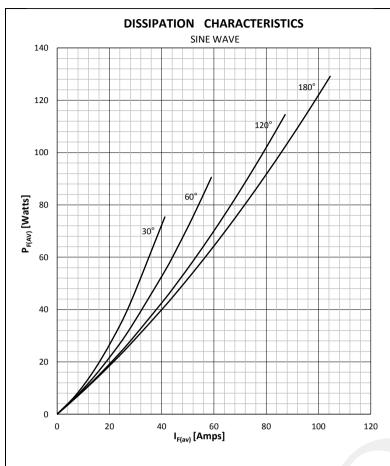


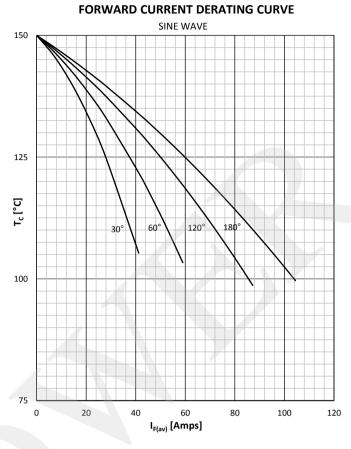
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		150	300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM	150	15	mA
CONDU	CTING		<u> </u>		
l F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C		104	Α
I FRMS	RMS current			164	А
		Sine wave, 10 ms	25	2500	Α
I FSM	Surge forward current	Without reverse voltage	150	2000	А
	l² t	Sine wave, 10 ms Without reverse voltage	25	31200	A²s
l² t			150	20000	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 arm per module		0.39 0.20	°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
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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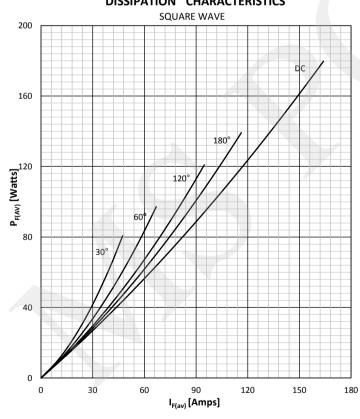
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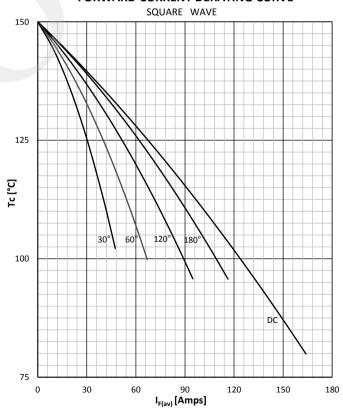




DISSIPATION CHARACTERISTICS



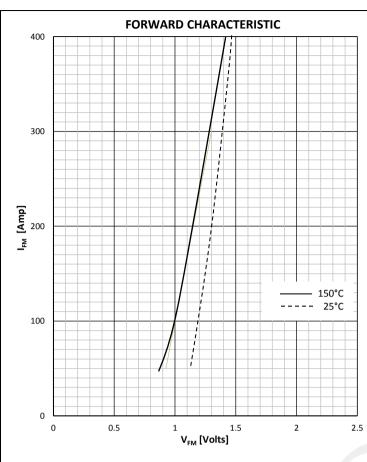
FORWARD CURRENT DERATING CURVE

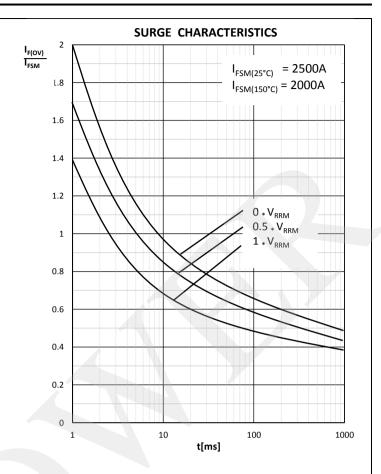


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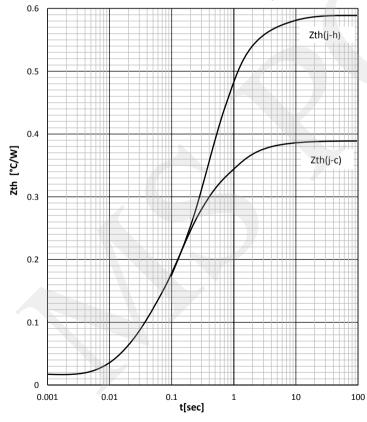
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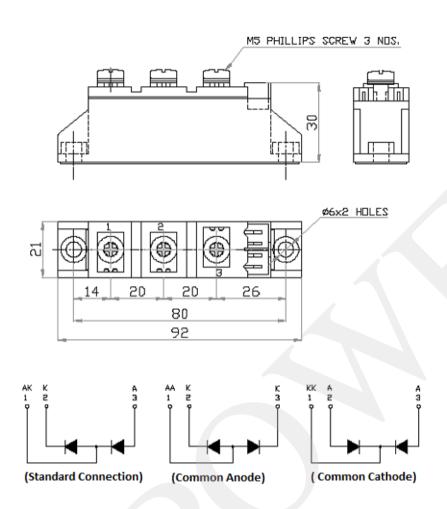


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