MS DZ600





Key Parameters

 V_{RRM} = 1800V= 600AI_{F(AV)} = 22000AIFSM $V_{F(TO)}$ = 0.75 V $= 0.215 m\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium nitride ceramic isolated metal base plate
- Pressure contacts technology for high reliability

Applications ■ Power Supplies

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

Ordering Information

MS	DZ	600	K	XX
Fixed code	DZ- Rectifier Diode Module	Current Code	Technology K = Pressure Contact	Voltage Code Technology Code X 100 = V _{RRM}
Order Code MS DZ600K18: 1800V V _{RRM} , Rectifier Diode Module				

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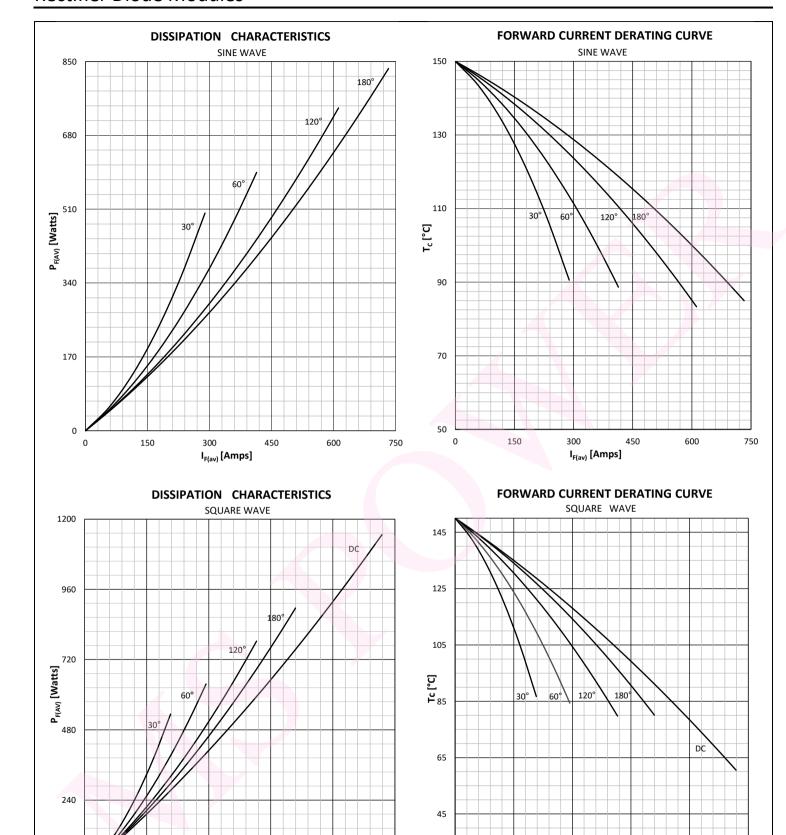


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	1200 - 1800	V
V RSM	Non-repetitive peak reverse voltage		150	1300 - 1900	V
I RRM	Repetitive peak reverse current	V= V RRM	150	40	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C 180° sin ,50 Hz, T _c =84°C		600 735	А
I FRMS	RMS current	T _c =84°C		1150	Α
1 ====	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	22000	Α
I FSM			150	19000	А
		Sine wave, 10 ms	25	2420 x 10 ³	A ² s
l² t	l² t	Without reverse voltage	150	1805 x 10 ³	A ² s
VF	Forward voltage	On-state current = 2200A	150	1.40	V
V F(TO)	Threshold voltage		150	0.75	V
r _F	Forward slope resistance		150	0.215	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per module		0.078	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per module		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			5 ± 15%	Nm
M2	Terminal connection torque			12 ± 10%	Nm
W	Weight (Approx.)			900	gm

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1200

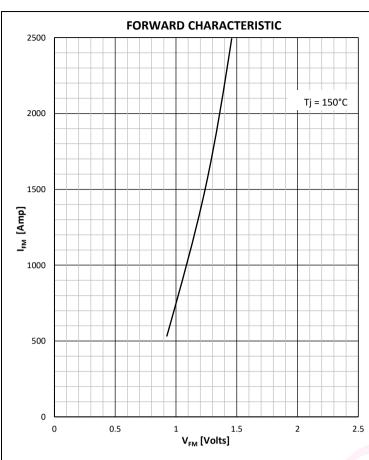
I_{F(av)} [Amps]

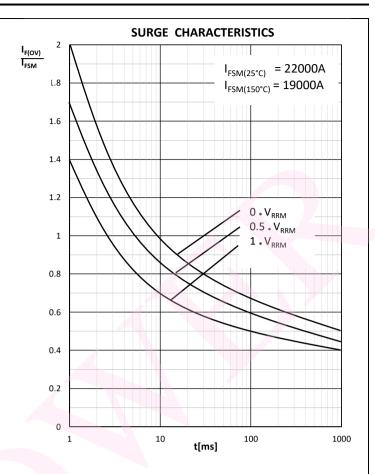
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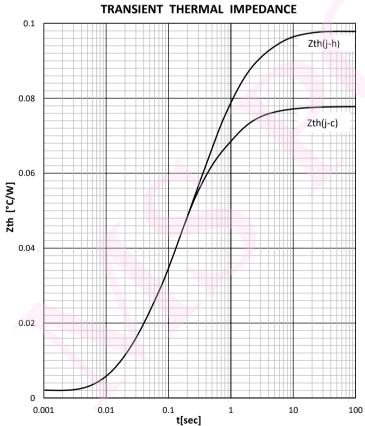
I_{F(av)} [Amps]

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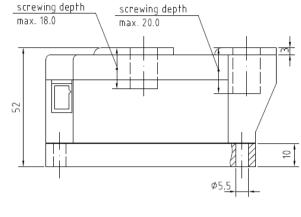


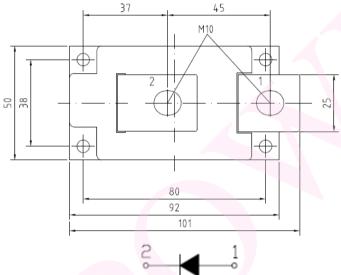
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