MS DZ540





Key Parameters

 V_{RRM} = 2600 V= 540A I_{F(AV)} = 16500A IFSM $V_{F(TO)}$ = 0.78 V $= 0.31 \text{m}\Omega$ 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	540	K	ХX
Fixed code	DZ- Rectifier Diode Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{RRM}
Order Code, MS D7540K26 : 2600V, Vopa, Rectifier Diode Module				

Order Code MS DZ540K26 : 2600V V_{RRM}, Rectifier Diode Module

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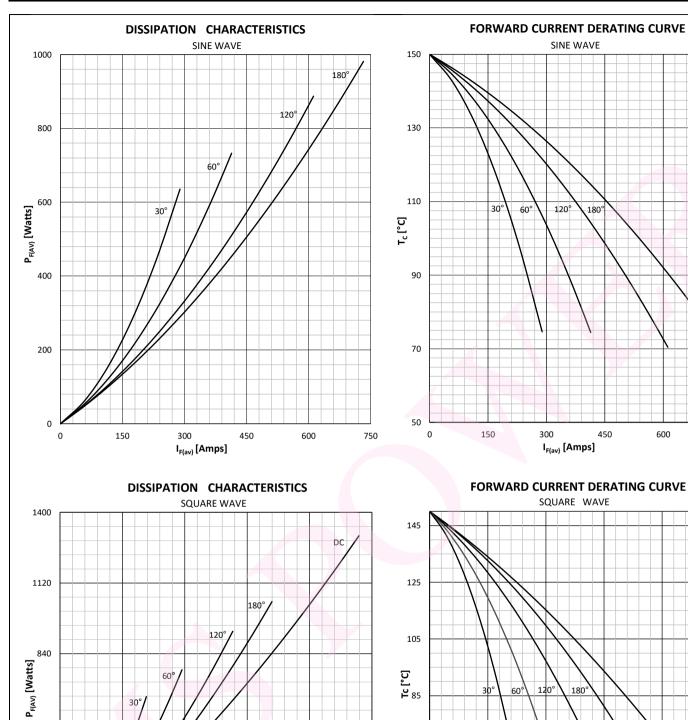
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	2000 - 2600	V
V RSM	Non-repetitive peak reverse voltage		150	2100 - 2700	V
I RRM	Repetitive peak reverse current	V= V RRM	150	40	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C 180° sin ,50 Hz, T _c =73°C		540 732	А
I FRMS	RMS current	T _c =73°C		1150	Α
1	0	Sine wave, 10 ms	25	16500	Α
I FSM	Surge forward current	Without reverse voltage	150	14000	А
		Sine wave, 10 ms	25	1361 x 10 ³	A ² s
l² t	l² t	Without reverse voltage	150	980 x 10 ³	A²s
VF	Forward voltage	On-state current = 2200A	150	1.64	V
V F(TO)	Threshold voltage		150	0.78	V
r _F	Forward slope resistance	<u> </u>	150	0.31	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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 $I_{F(av)}[Amps]$

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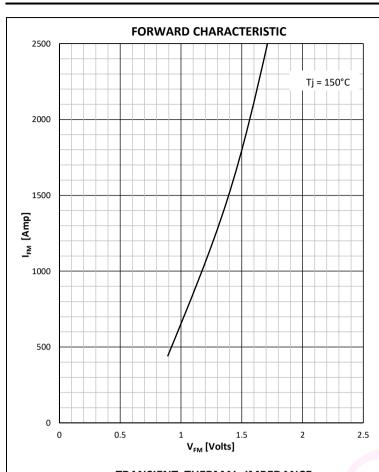


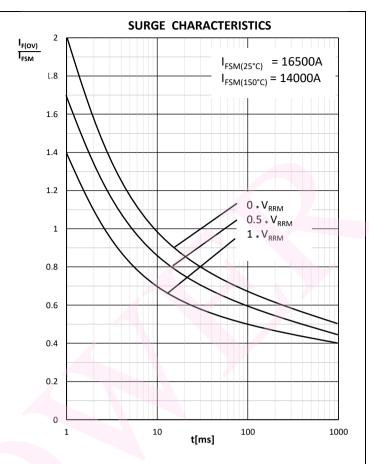
DC		
	125	
80°	105	
	[°] 7 85	30° 60° 120° 180°
	65 -	DC
	45 -	
	25	
960 120	0 0	240 480 720 960 1200 I _{F(av)} [Amps]

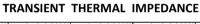
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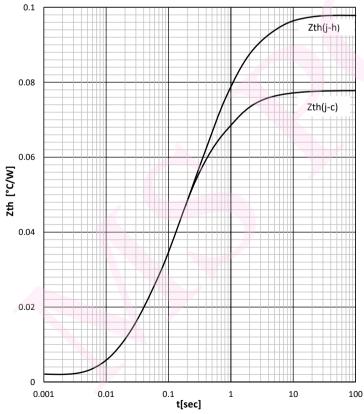
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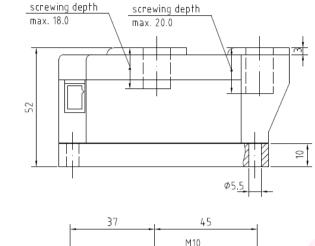


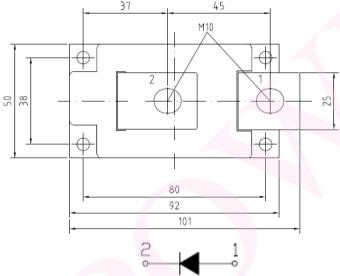
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