MS DD515





Key Parameters

 $\begin{array}{lll} V_{RRM} & = 3600 V \\ I_{F(AV)} & = 515 A \\ I_{FSM} & = 15000 A \\ V_{F(TO)} & = 0.80 V \\ r_{F} & = 0.50 m \Omega \end{array}$

Features

- Full blocking capability over wide temperature range
- Heat transfer through aluminium oxide ceramic isolated metal base plate
- Pressure contacts technology for high reliability
- UL Recognized, file no. E505556

Applications

- Power Supplies
- Uncontrolled Rectifiers
- Field supply for DC motors
- Battery Chargers
- UPS

Ordering Information

MS	DD	515	K	36
Fixed code	DD- Diode- Diode Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS DD515K36: 3600V VRRM, Diode-Diode Module				

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Technical Information Rectifier Diode Modules

MS DD515



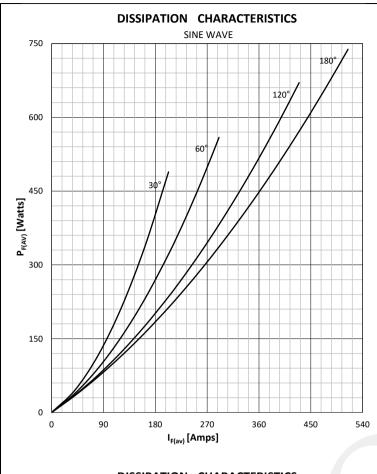
Symbol	Characteristic	Conditions	Tj [° <i>C</i>]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	2800 - 3600	V
V RSM	Non-repetitive peak reverse voltage		150	2900 - 3700	V
I RRM	Repetitive peak reverse current	V= V RRM	150	50	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T _c =100°C		515	А
I FRMS	RMS current			808	А
	Surge forward current	Sine wave, 10 ms	25	15000	А
I FSM Sui		Without reverse voltage	150	13000	А
	l² t	Sine wave, 10 ms	25	1125 x 10 ³	A ² s
l² t		Without reverse voltage	150	845 x 10 ³	A²s
VF	Forward voltage	On-state current = 1256A	25	1.60	V
V F(TO)	Threshold voltage	,	150	0.80	V
r _F	Forward slope resistance		150	0.50	mΩ
MOUNT	ING				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.068 0.034	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, per arm per module		0.02 0.01	°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	K۷
M1	Mounting torque			6 ± 15%	Nm
M2	Terminal connection torque			12 ± 10%	Nm
W	Weight (Approx.)			1480	gm
A1 ®	File No.			E505556	

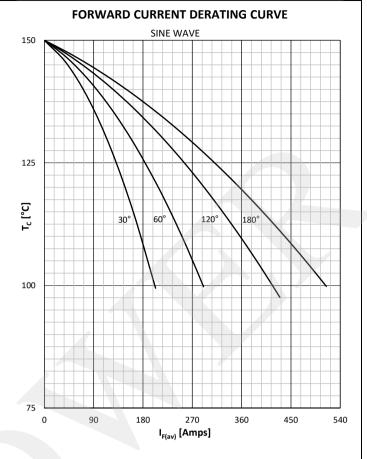
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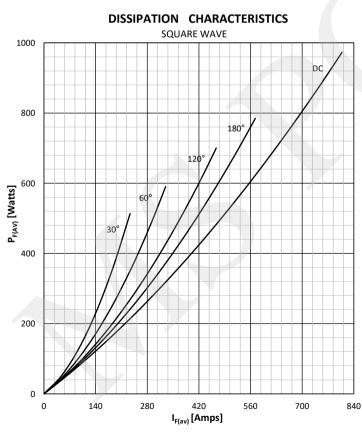
Technical Information Rectifier Diode Modules

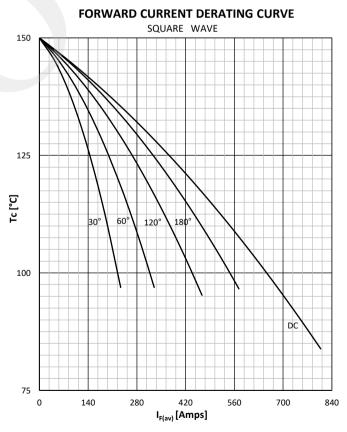
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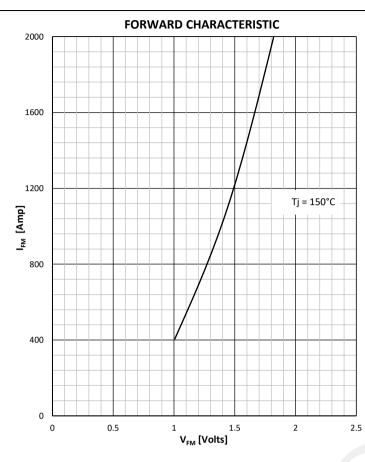


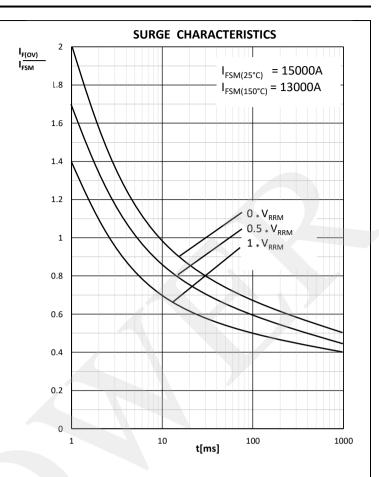
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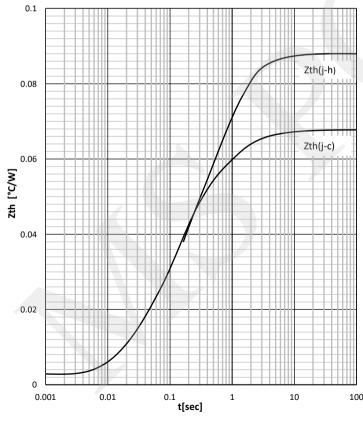
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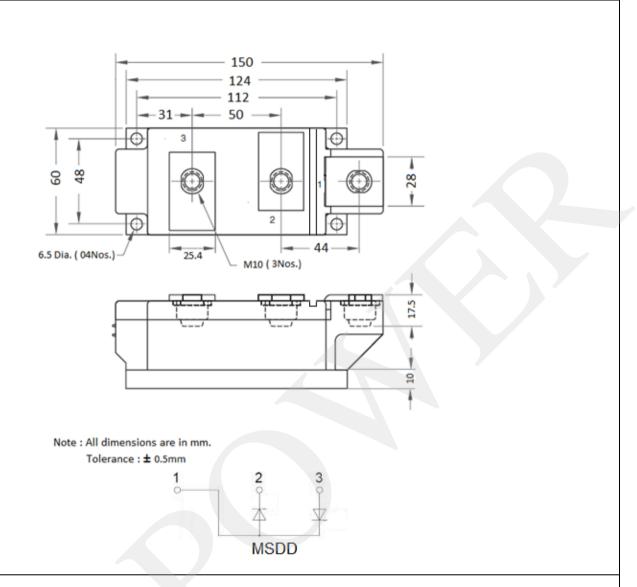


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