MS DD480





Key Parameters

 V_{RRM} =4500V= 480AI_{F(AV)} = 10500A**I**FSM $V_{F(TO)}$ = 0.89V $= 0.815 m\Omega$ ГF

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	480	K	45
Fixed code	DD- Diode- Diode Module	Current Code	Technology K = Pressure Contact Technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS DD480K45 : 4500V V _{RRM} , Diode-Diode Module				

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Technical Information Rectifier Diode Modules

MS DD480



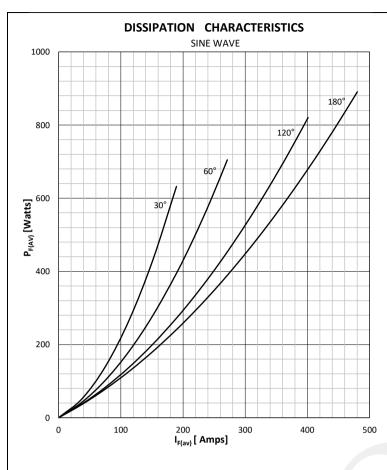
Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKING	G				
V RRM	Repetitive peak reverse voltage		150	4000 - 4500	V
V RSM	Non-repetitive peak reverse voltage		150	4100 - 4600	V
I RRM	Repetitive peak reverse current	V= V RRM	150	75	mA
CONDUC	TING				
I F (AV)	Mean forward current	180° sin ,50 Hz, T _c =87°C 180° sin ,50 Hz, T _c =100°C		480 410	А
I FRMS	RMS current	T _c =87°C		754	Α
I FSM	Surge forward current	Sine wave, 10 ms	25	10500	Α
		Without reverse voltage	150	9000	Α
		Sine wave, 10 ms	25	551 x 10 ³	A ² s
l² t	I ² t	Without reverse voltage	150	405 x 10 ³	A ² s
VF	Forward voltage	On-state current = 1600A	150	2.194	V
V F(TO)	Threshold voltage	,	150	0.89	V
r _F	Forward slope resistance		150	0.815	mΩ
MOUNTII	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, per arm per module		0.070 0.035	°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	KV
M1	Mounting torque			6 ± 15%	Nm
M2	Terminal connection torque			12 ± 10%	Nm
W	Weight (Approx.)			1480	gm
A I®	File No.			E505556	

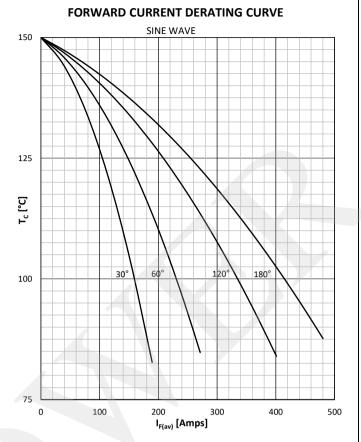
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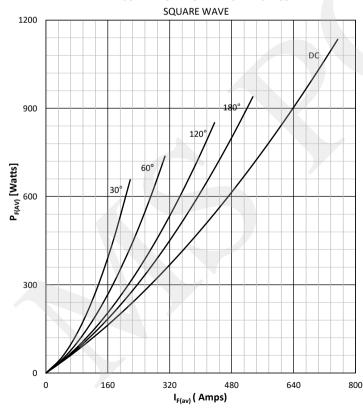
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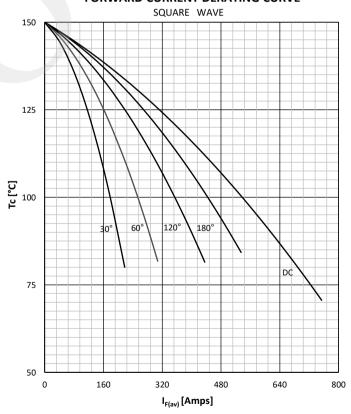




DISSIPATION CHARACTERISTICS



FORWARD CURRENT DERATING CURVE

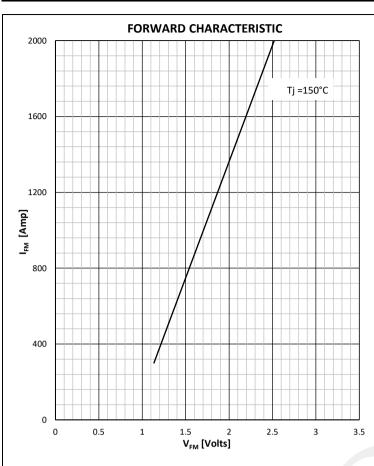


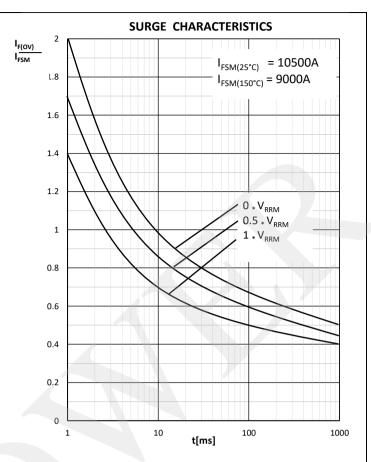
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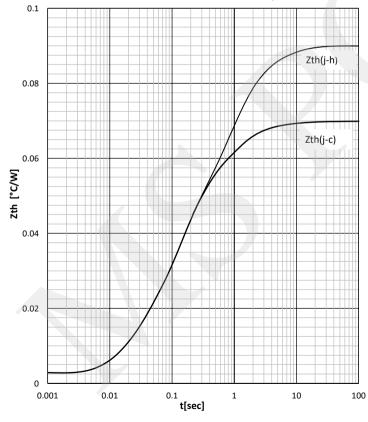
MS DD480









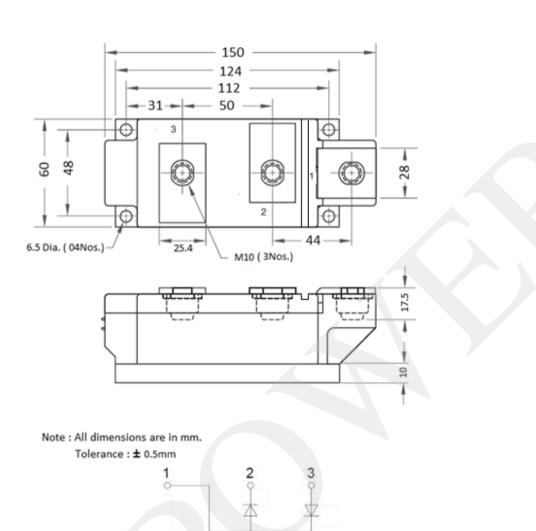


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Outline



MSDD

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