MS D1105





Key Parameters

 V_{RRM} = 2400 V= 1105AI_{F(AV)} = 9000A**I**FSM $V_{F(TO)}$ = 0.91 V $= 0.518 m\Omega$ ГF

Features

- Full blocking capability over wide temperature range
- Hermetically sealed ceramic package
- High case non-rupture current

Applications Power Supplies

- Uncontrolled Rectifiers
- Welding
- Induction Heating / Melting

Ordering Information

MS D	1105	С	ХX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D1105C24 : 2400V VRRM, Capsule Diode			

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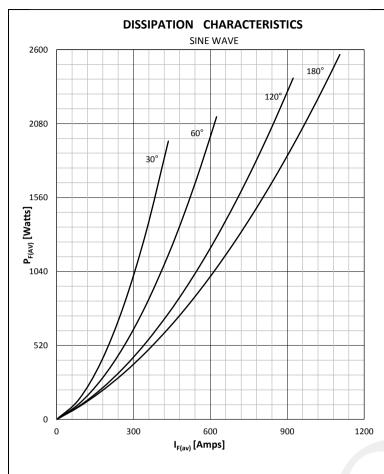


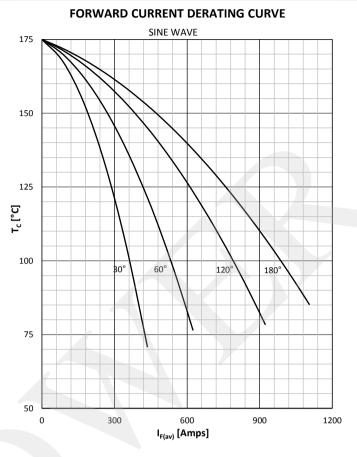
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		175	1800 - 2400	V
V RSM	Non-repetitive peak reverse voltage		175	2000 - 2600	V
I RRM	Repetitive peak reverse current	V= V RRM	175	50	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C , double side cooled 180° sin,50 Hz, T_c =121°C , double side cooled		1105 800	А
I FRMS	RMS current	T _c =85°C , double side cooled		1735	Α
Leon	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	9000	A
I FSM			175	7750	А
10.4	l² t	Sine wave, 10 ms Without reverse voltage	25	405 x 10 ³	A ² s
l² t			175	300 x 10 ³	A ² s
VF	Forward voltage	On-state current = 1500A	175	1.75	V
V F(TO)	Threshold voltage		175	0.91	V
r _F	Forward slope resistance		175	0.518	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.035	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.02	°C/W
Тj	Max. junction temperature			175	°C
T stg	Storage temperature			-40 175	°C
М	Clamping force			9 - 11	KN
W	Weight (Approx.)			110	gm

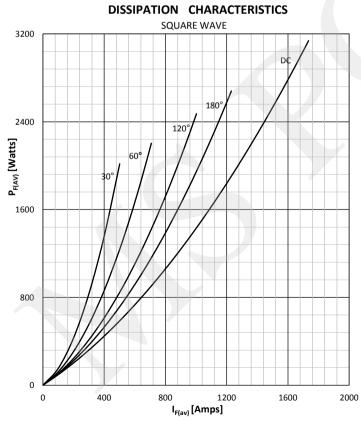
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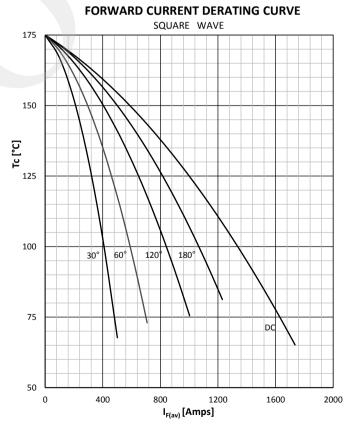
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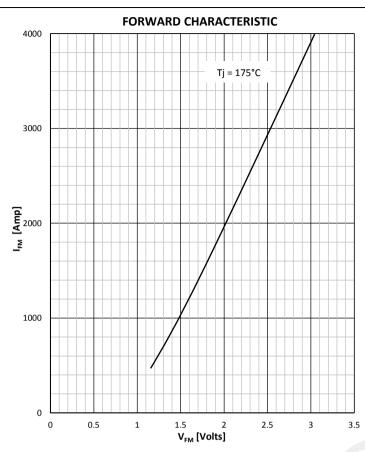


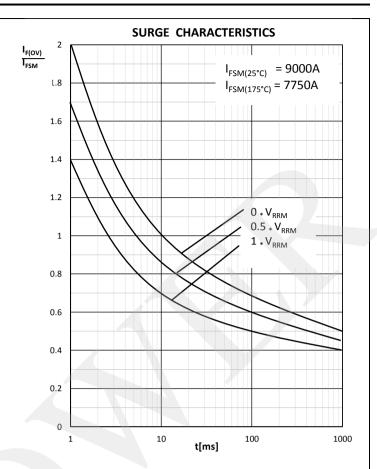


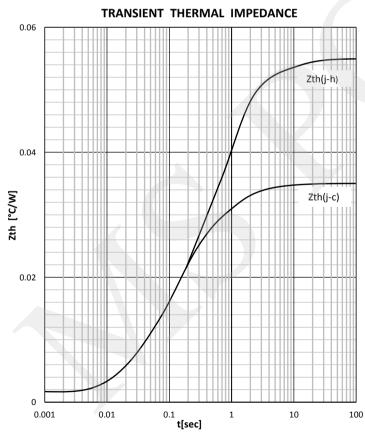
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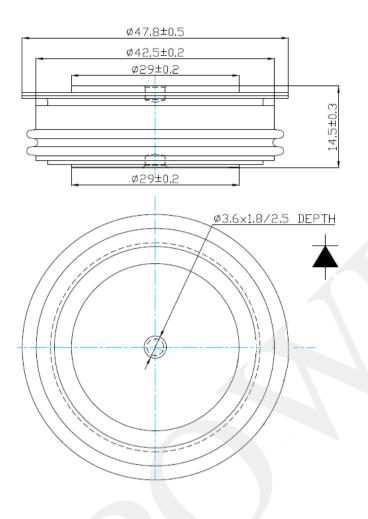
Technical Information

Power Rectifier Diodes

MS D1105



Outline



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