MS D3095





Key Parameters

 V_{RRM} =4800V= 3095AI_{F(AV)} = 30000AIFSM $V_{F(TO)}$ = 0.996V $= 0.222 m\Omega$ ГF

Features

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

ApplicationsTraction Rectifiers

- **Uncontrolled Rectifiers**
- Welding
- Induction Heating / Melting

Ordering Information

MS D	3095	С	ХХ
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D30	95C48 : 4800V `	V _{RRM} , Capsule Diode	

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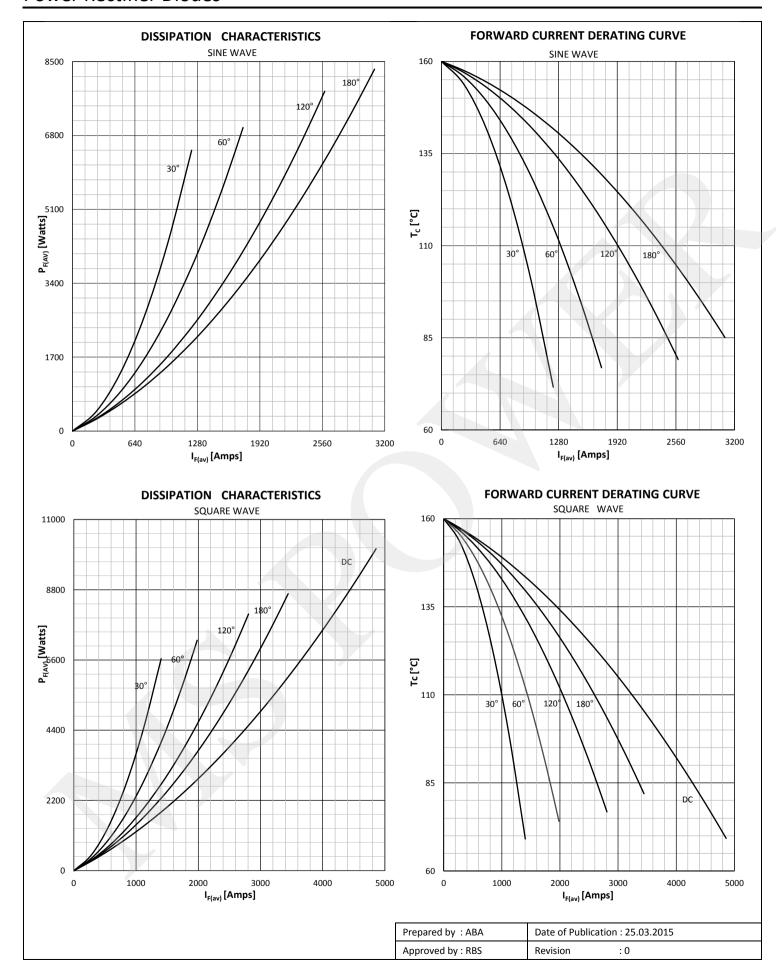


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		160	3200 - 4800	V
V RSM	Non-repetitive peak reverse voltage		160	3300 - 4900	V
I RRM	Repetitive peak reverse current	V= V RRM	160	50	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C, double side cooled 180° sin,50 Hz, T_c =93°C, double side cooled		3095 2900	А
I FRMS	RMS current	T _c =85°C, double side cooled		4859	Α
I FSM	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	30000	Α
I FSM			160	28000	А
10.4		Sine wave, 10 ms Without reverse voltage	25	4500 x 10 ³	A ² s
l² t	l² t		160	3920 x 10 ³	A ² s
VF	Forward voltage	On-state current = 4000A	160	1.90	V
V F(TO)	Threshold voltage		160	0.996	V
r _F	Forward slope resistance		160	0.222	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, DC	Junction to case, double side cooled		0.009	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.005	°C/W
Тj	Max. junction temperature			160	°C
T stg	Storage temperature			-40 160	°C
М	Clamping force			25 - 31	KN
W	Weight (Approx.)			550	gm

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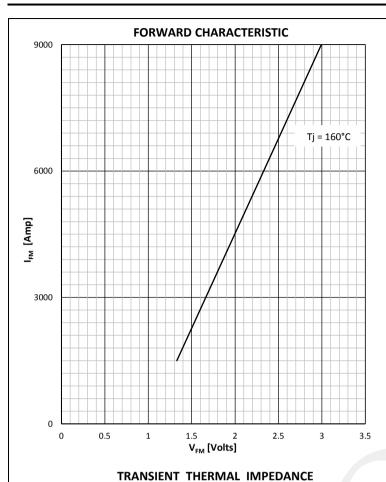
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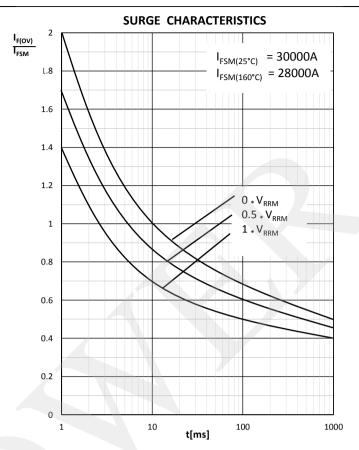


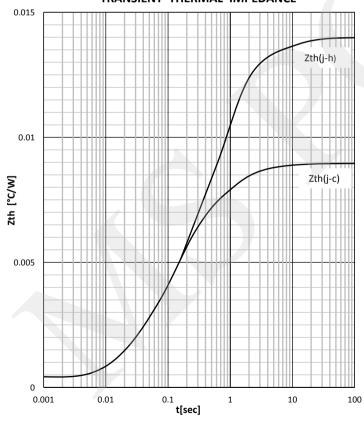


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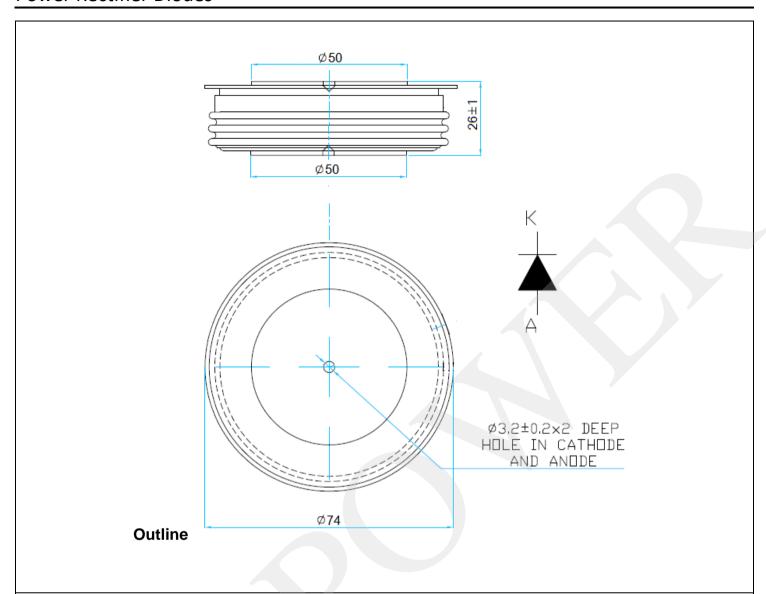




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