MS D5390





Key Parameters

Vrrm	= 5600V
F(AV)	= 5390A
IFSM	= 61000A
V _{F(TO)}	= 1.027V
ľF	= 0.11mΩ

Features

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

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

Ordering Information

MS D	5390	C	ХХ
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D5390C56 : 5600V VRRM, Capsule Diode			

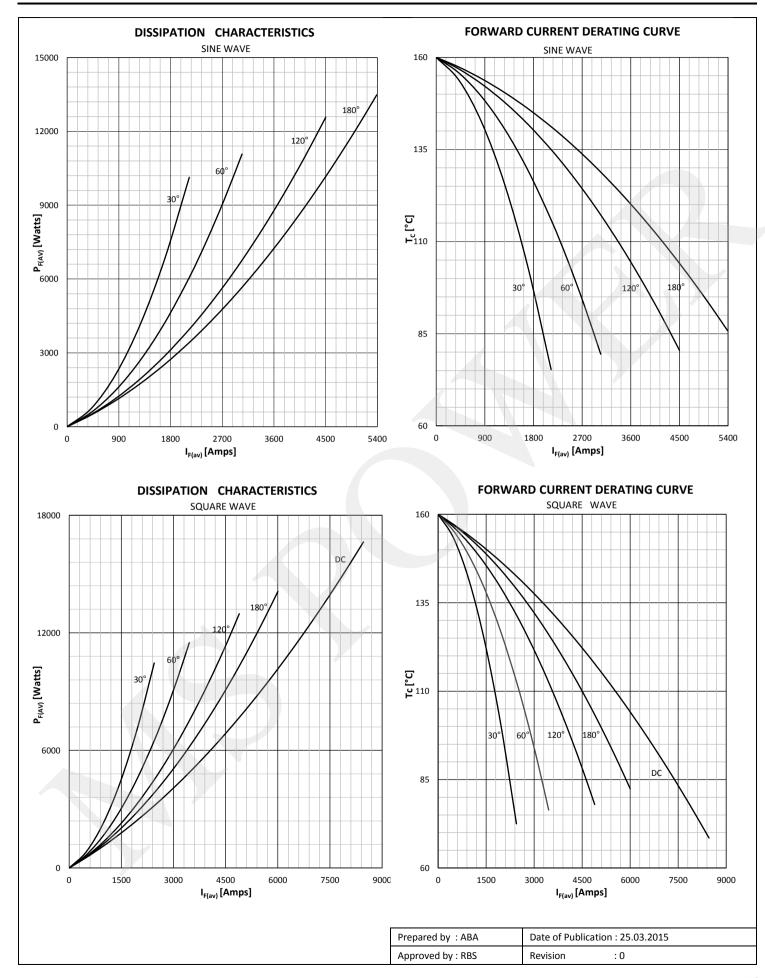
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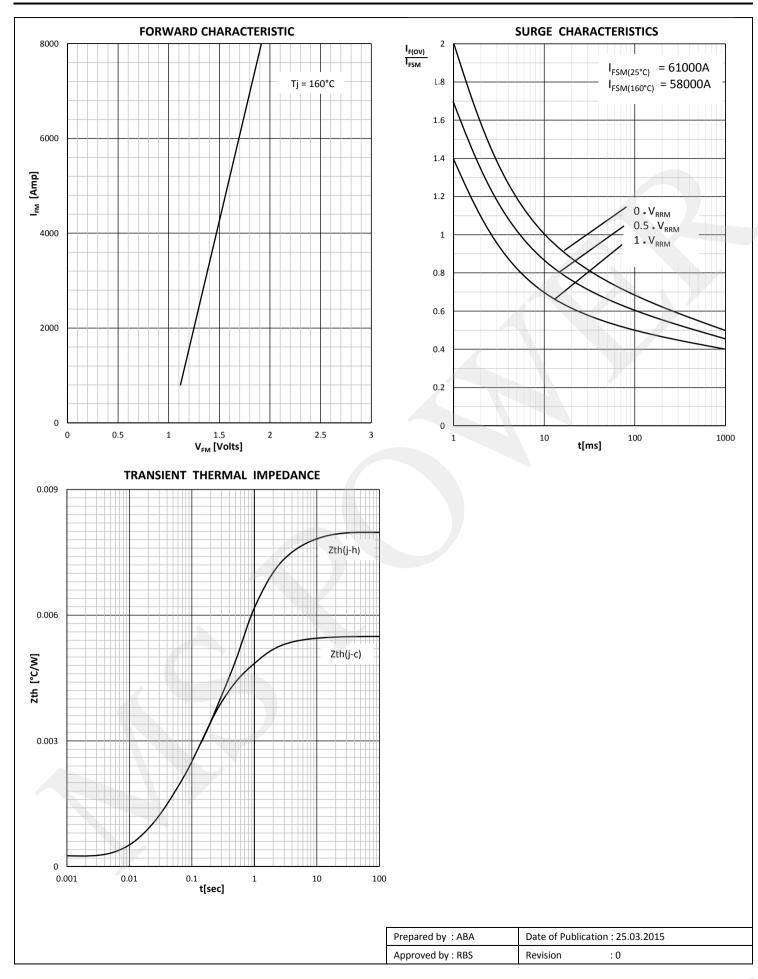
Symbol	Characteristic	Conditions	Тј [°С]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		160	5000 - 5600	V
V RSM	Non-repetitive peak reverse voltage		160	5100 - 5700	V
I RRM	Repetitive peak reverse current	V= V RRM	160	200	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C, double side cooled 180° sin,50 Hz, T_c =88°C, double side cooled		5390 5300	А
I FRMS	RMS current	$T_c=85^{\circ}C$, double side cooled		8462	Α
1		Sine wave, 10 ms	25	61000	A
I FSM	Surge forward current Sine wave, 10 ms Without reverse voltage		160	58000	А
		Sine wave, 10 ms Without reverse voltage	25	18605 x 10 ³	A²s
l² t	l ² t		160	16820 x 10 ³	A²s
VF	Forward voltage	On-state current = 6000A	160	1.70	V
V F(TO)	Threshold voltage		160	1.027	V
r _F	Forward slope resistance		160	0.110	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.0055	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.0025	°C/W
Тj	Max. junction temperature			160	°C
T stg	Storage temperature			-40 160	°C
М	Clamping force			65 - 75	KN
W	Weight (Approx.)			1250	gm

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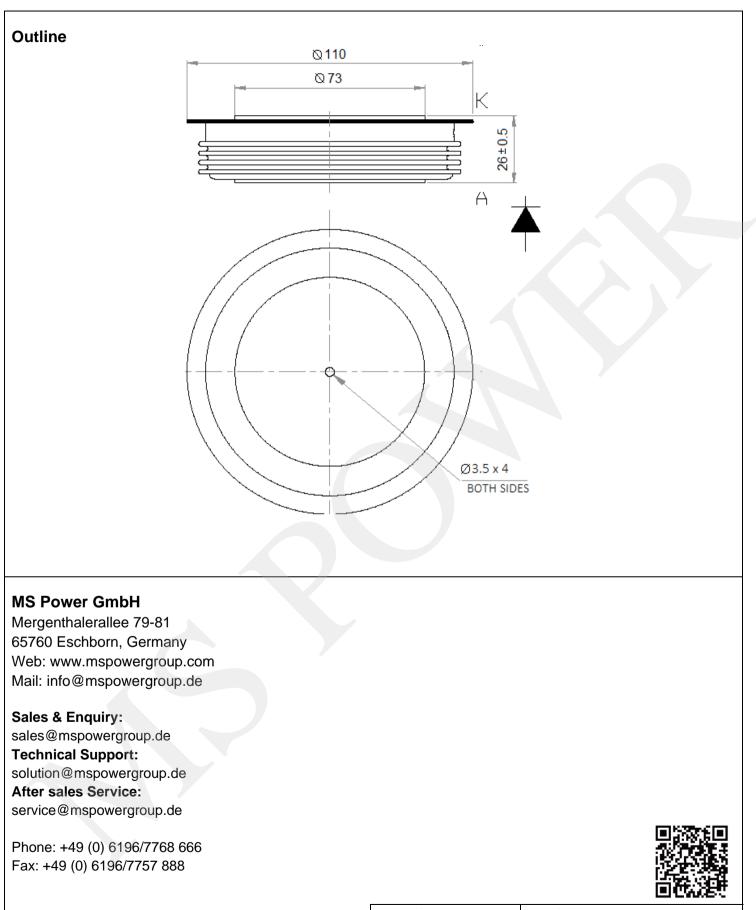












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-to perform joint Risk and Quality Assessments;

-the conclusion of Quality Agreements;

-to establish joint measures of an ongoing product survey, and that we may make delivery depended on the realization of any such measures.

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