MS D6680





Key Parameters

 V_{RRM} = 2600 V= 6680AI_{F(AV)} = 72KA IFSM $V_{F(TO)}$ = 0.72V $= 0.065 m\Omega$ ГF

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	6680	C	ХX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D6680C26 : 2600V VRRM, Capsule Diode			

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Technical Information Power Rectifier Diodes

MS D6680



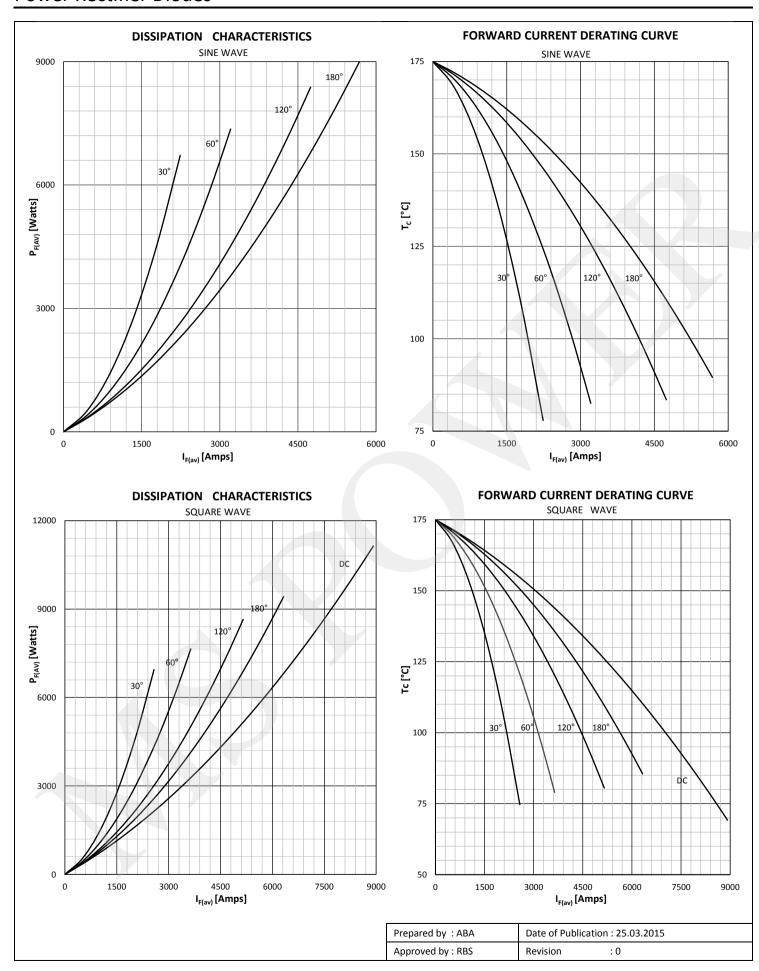
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		175	1800 - 2600	V
V RSM	Non-repetitive peak reverse voltage		175	1900 - 2700	V
I RRM	Repetitive peak reverse current	V= V RRM	175	150	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C, double side cooled 180° sin,50 Hz, T_c =80°C, double side cooled		6680 6910	А
I FRMS	RMS current	T _c =80°C, double side cooled		10849	Α
I FSM	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	72000	Α
			175	70000	Α
		Sine wave, 10 ms	25	25920 x 10 ³	A ² s
l² t	l² t	Without reverse voltage	175	24500 x 10 ³	A ² s
VF	Forward voltage	On-state current = 3000A	25	1.01	V
V F(TO)	Threshold voltage		175	0.72	V
r _F	Forward slope resistance		175	0.065	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.0075	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.002	°C/W
Тj	Max. junction temperature			175	°C
T stg	Storage temperature			-40 175	°C
М	Clamping force			46 - 54	KN
W	Weight (Approx.)			1150	gm

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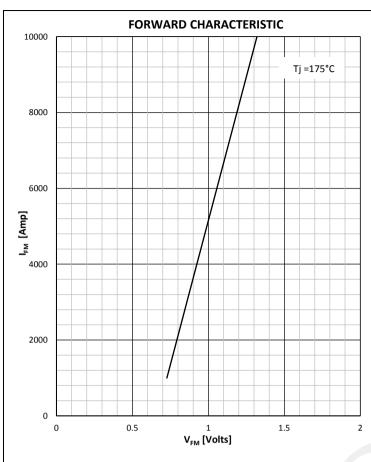


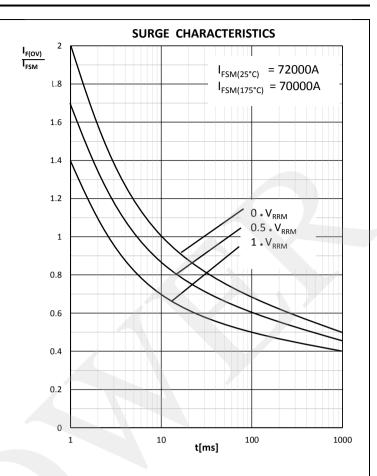
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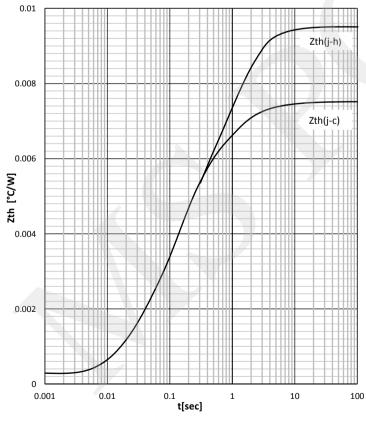
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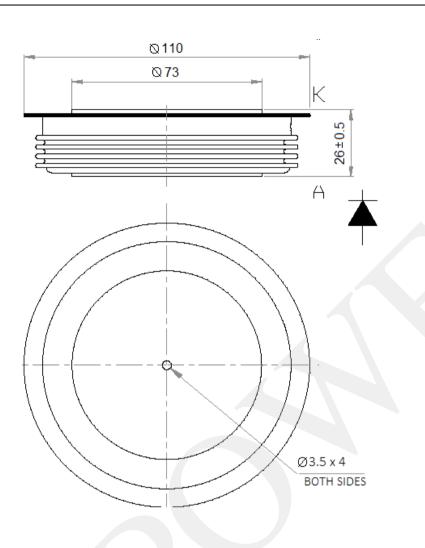
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