MS D2645





Key Parameters

= 3000 = 2645A 22000/ V_{RRM} I_{F(AV)} = 32000AIFSM $V_{F(TO)}$ = 0.87 V $= 0.127 m\Omega$ 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	2645	С	ХX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D2645C30 : 3000V VRRM, Capsule Diode			

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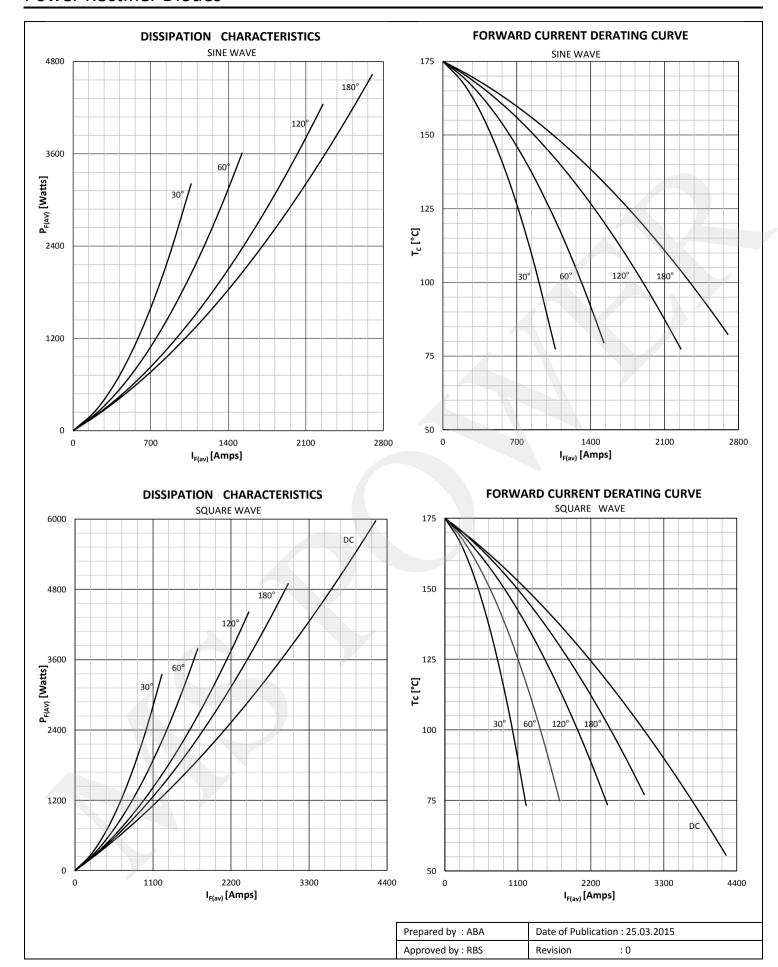


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		175	2200 - 3000	V
V RSM	Non-repetitive peak reverse voltage		175	2300 - 3100	V
I RRM	Repetitive peak reverse current	V= V RRM	175	75	mA
CONDU	CTING				
I F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C , double side cooled 180° sin,50 Hz, T_c =82°C , double side cooled		2645 2700	А
I FRMS	RMS current	T _c =82°C , double side cooled		4239	Α
	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	32000	Α
I FSM			175	30500	А
	l² t	Sine wave, 10 ms Without reverse voltage	25	5120 x 10 ³	A ² s
l² t			175	4651 x 10 ³	A ² s
VF	Forward voltage	On-state current = 2900A	25	1.30	V
V F(TO)	Threshold voltage		175	0.87	V
r _F	Forward slope resistance		175	0.127	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, DC	Junction to case, double side cooled		0.020	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.006	°C/W
Тj	Max. junction temperature			175	°C
T stg	Storage temperature			-40 175	°C
М	Clamping force			18 - 24	KN
W	Weight (Approx.)			550	gm

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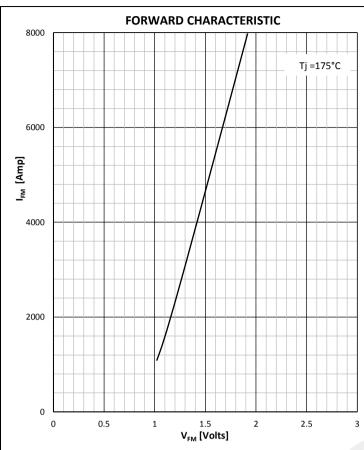
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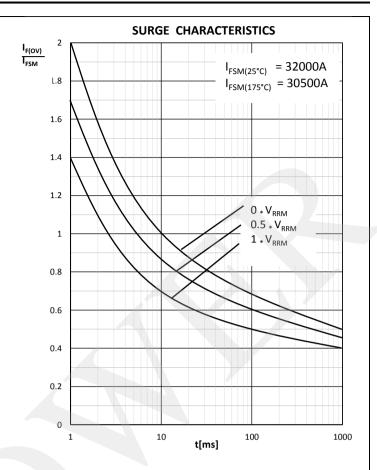


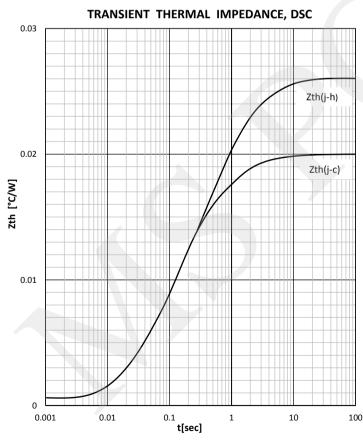


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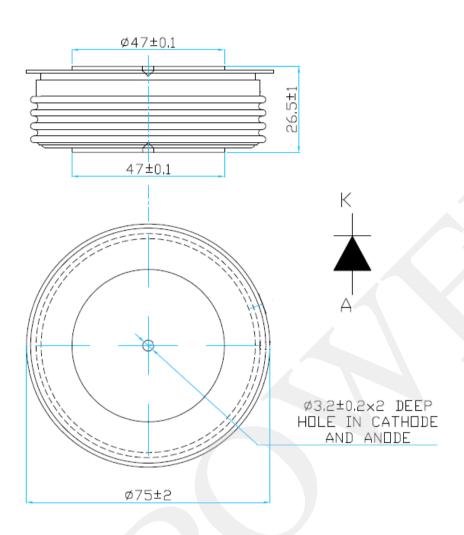


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