MS D5850





Key Parameters

 V_{RRM} = 2400 V= 5850AI_{F(AV)} = 105KA**I**FSM $V_{F(TO)}$ = 0.661 V $= 0.0659 m\Omega$ 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	5850	С	XX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V _{RRM}
Order Code MS D5850C24 : 2400V V _{RRM} , Capsule Diode			

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Technical Information Power Rectifier Diodes

MS D5850



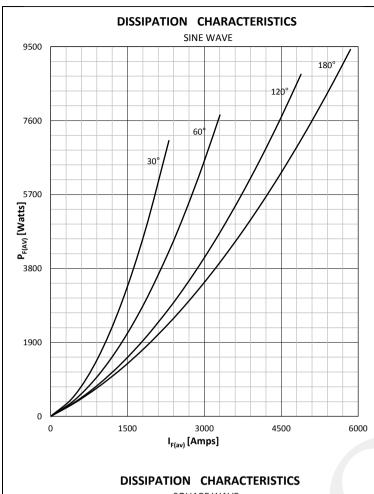
Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		175	1800 - 2400	V
V RSM	Non-repetitive peak reverse voltage		175	1900 - 2500	V
I RRM	Repetitive peak reverse current	V= V RRM	175	150	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, T_c =85°C, double side cooled 180° sin,50 Hz, T_c =90°C, double side cooled		5850 5680	Α
I FRMS	RMS current	T _c =85°C, double side cooled		9184	Α
Leon	Surge forward current	Sine wave, 10 ms	25	105000	Α
I FSM		Without reverse voltage	175	103700	Α
10.4	l² t	Sine wave, 10 ms	25	55125 x 10 ³	A²s
l² t		Without reverse voltage	175	53768 x 10 ³	A ² s
VF	Forward voltage	On-state current = 4000A	175	0.95	V
V F(TO)	Threshold voltage		175	0.661	V
r F	Forward slope resistance		175	0.0659	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.0095	°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			26 - 44	KN
W	Weight (Approx.)			1130	gm

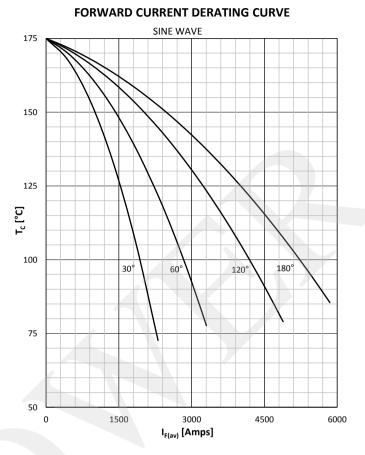
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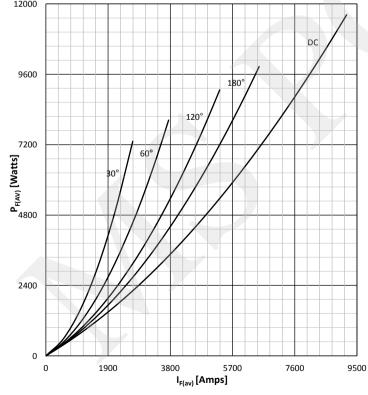
MS D5850

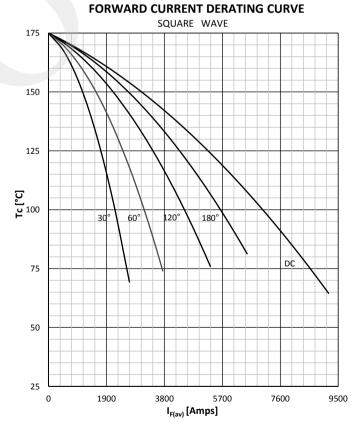






SQUARE WAVE 12000





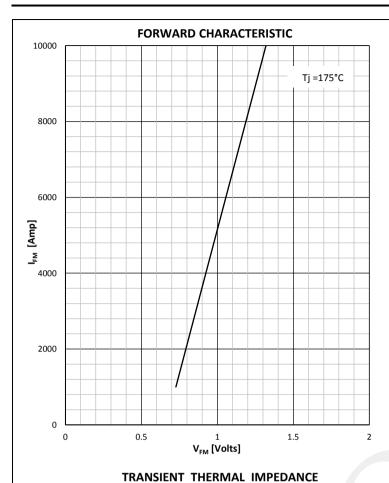
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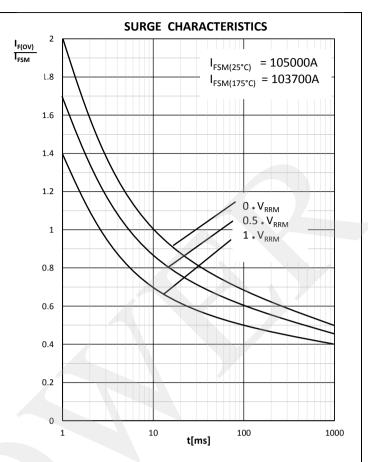
Technical Information

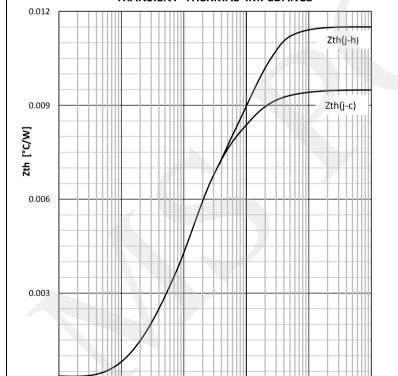
Power Rectifier Diodes

MS D5850









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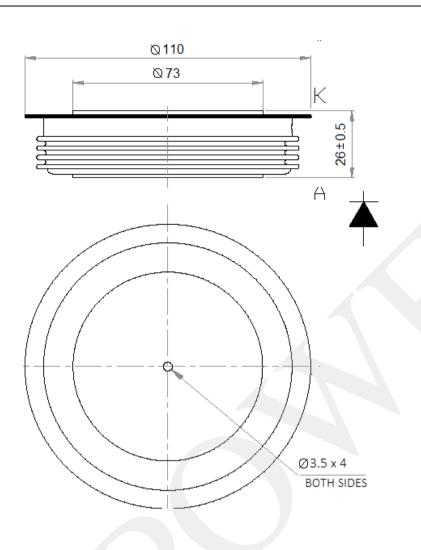
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