### **MS D2500**





### **Key Parameters**

 $V_{RRM}$ =6500V= 2500AI<sub>F(AV)</sub> = 63000A**I**FSM  $V_{F(TO)}$ = 0.79V $= 0.238 m\Omega$ 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	2500	С	XX
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V <sub>RRM</sub>
Order Code MS D2500C65: 6500V VRRM, Capsule Diode			

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## **MS D2500**

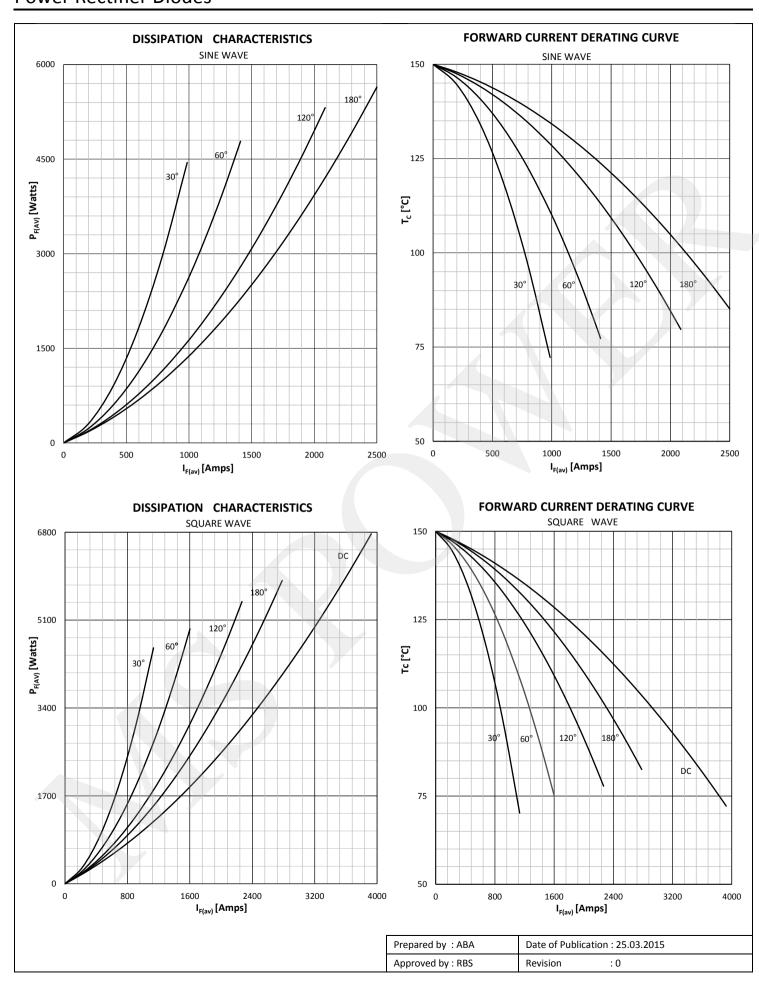


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	5600 - 6500	V
V RSM	Non-repetitive peak reverse voltage		150	5700 - 6600	V
I RRM	Repetitive peak reverse current	V= V RRM	150	150	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, T <sub>c</sub> =85°C, double side cooled		2500	Α
I FRMS	RMS current	T <sub>c</sub> =85°C, double side cooled		3925	А
	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	63000	Α
I FSM			150	61000	А
	l² t	Sine wave, 10 ms Without reverse voltage	25	19845 x 10 <sup>3</sup>	A²s
l² t			150	18605 x 10 <sup>3</sup>	A <sup>2</sup> s
VF	Forward voltage	On-state current = 3000A	25	1.55	V
V F(TO)	Threshold voltage		150	0.79	V
r <sub>F</sub>	Forward slope resistance		150	0.238	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.0115	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.002	°C/W
Тj	Max. junction temperature			150	°C
T stg	Storage temperature			-40 150	°C
М	Clamping force			26 - 44	KN
W	Weight (Approx.)			1130	gm

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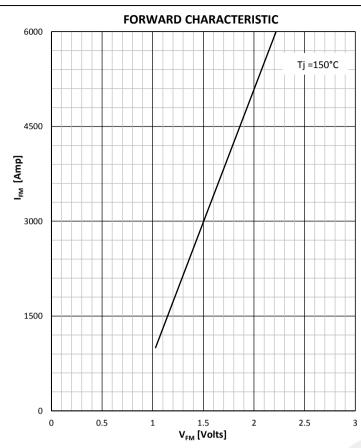
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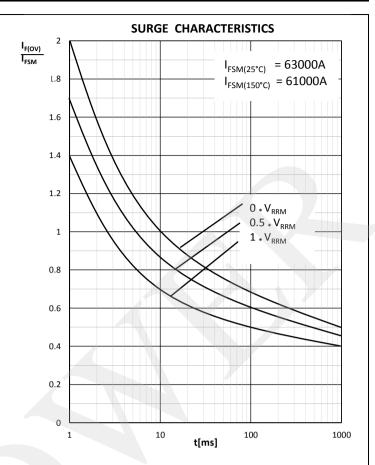


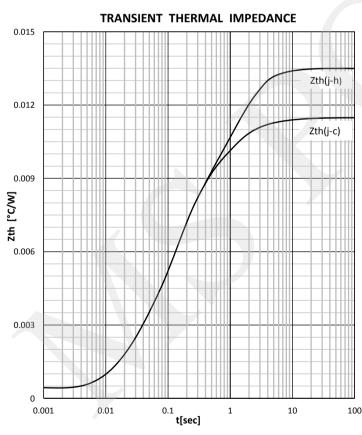


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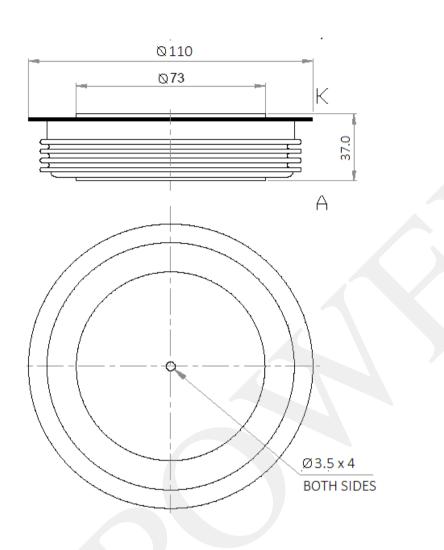


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### **MS D2500**



#### **Outline**



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