### **MS D1195**





### **Key Parameters**

 $\begin{array}{lll} V_{RRM} & = 3000 V \\ I_{F(AV)} & = 1195 A \\ I_{FSM} & = 15000 A \\ V_{F(TO)} & = 0.78 V \\ r_{F} & = 0.29 m \Omega \end{array}$ 

#### **Features**

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

### **Applications**

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

### **Ordering Information**

MS D	1195	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 D1195C30 : 3000V VRRM, Capsule Diode			

Prepared by : ABA	Date of Publication : 25.03.2015		
Approved by : RBS	Revision : 0	_	

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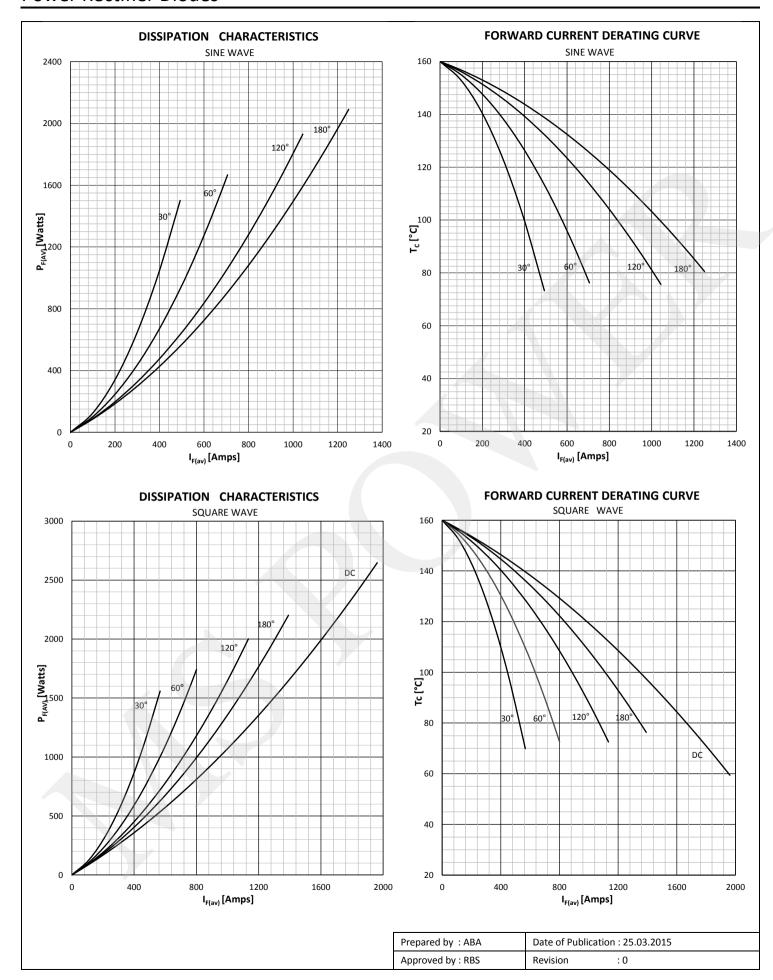


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		160	2000 - 3000	V
V RSM	Non-repetitive peak reverse voltage		160	2100 - 3100	V
I RRM	Repetitive peak reverse current	V= V RRM	160	40	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin,50 Hz, $T_c$ =85°C , double side cooled 180° sin,50 Hz, $T_c$ =80°C , double side cooled		1195 1250	А
I FRMS	RMS current	$T_c$ =80°C , double side cooled		1962	Α
Leon	Surge forward current	Sine wave, 10 ms Without reverse voltage	25	15000	Α
I FSM			160	14000	Α
	I <sup>2</sup> t	Sine wave, 10 ms Without reverse voltage	25	1125 x 10 <sup>3</sup>	A <sup>2</sup> s
l² t			160	980 x 10 <sup>3</sup>	A <sup>2</sup> s
VF	Forward voltage	On-state current = 3000A	160	1.76	V
V F(TO)	Threshold voltage		160	0.78	V
r <sub>F</sub>	Forward slope resistance		160	0.29	mΩ
MOUNTI	NG				
R th(j-c)	Thermal impedance, sin 180°	Junction to case, double side cooled		0.038	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.005	°C/W
Тj	Max. junction temperature			160	°C
T stg	Storage temperature			-40 160	°C
М	Clamping force			16 - 18	KN
W	Weight (Approx.)			280	gm

Prepared by : ABA	Date of Publication : 25.03.2015	
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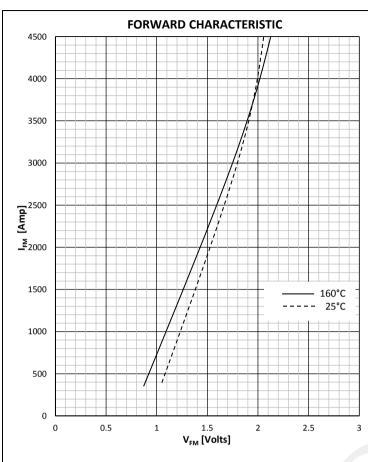
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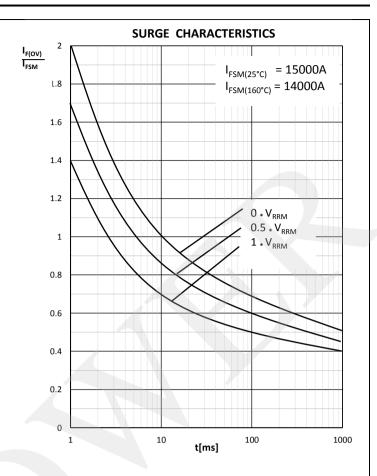




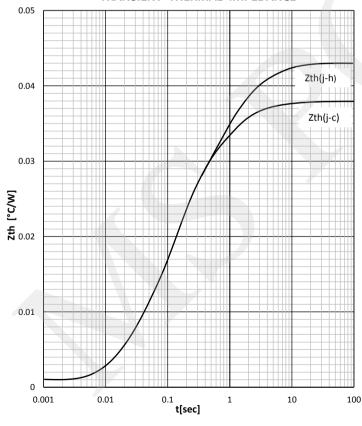
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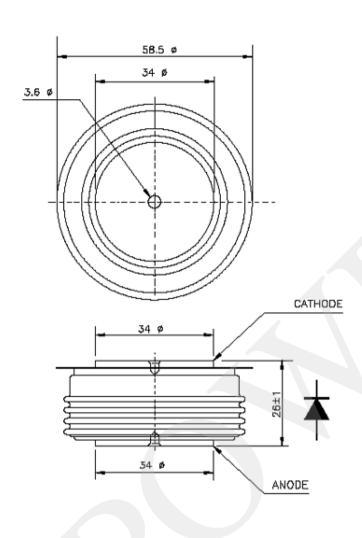


Prepared by : ABA	Date of Publication : 25.03.2015		
Approved by : RBS	Revision	: 0	

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#### **Outline**



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Prepared by : ABA	Date of Publication	n : 25.03.2015
Approved by : RBS	Revision	:0

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Prepared by : ABA	Date of Publication : 25.03.2015		
Approved by : RBS	Revision : 0		