**MS D1201** 





### Key Parameters

Ney raian	
VRRM	= 2400V
F(AV)	= 1200A
IFSM	= 10000A
V <sub>F(TO)</sub>	= 0.83V
ΓF	= 0.44mΩ

#### **Features**

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

# ApplicationsPower Supplies

- Uncontrolled Rectifiers .
- Welding
- Induction Heating / Melting

### **Ordering Information**

MS D	1201	С	ХХ
Rectifier Diode	Current code	C - Capsule package with Alloyed silicon technology	Voltage Code Code X 100 = V <sub>RRM</sub>
Order Code MS D1201C24 : 2400V V <sub>RRM</sub> , Capsule Diode			

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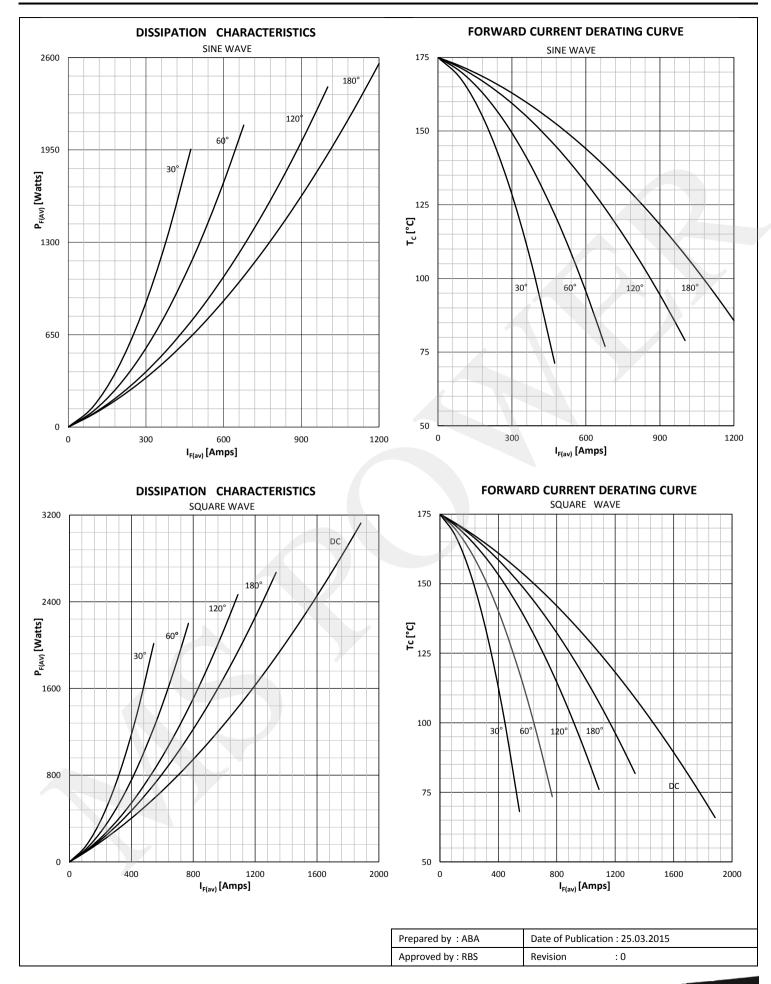
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Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCK	NG				
V RRM	Repetitive peak reverse voltage		175	1800 - 2400	V
V RSM	Non-repetitive peak reverse voltage		175	2000 - 2600	V
I RRM	Repetitive peak reverse current	V= V rrm	175	50	mA
CONDU	CTING				
IF(AV)	Mean forward current	180° sin,50 Hz, $T_{\rm c}{=}85^{\circ}C$ , double side cooled		1200	А
I FRMS	RMS current	$T_c$ =85°C , double side cooled		1884	А
1	Current forward average	Sine wave, 10 ms	25	10000	Α
I FSM	Surge forward current	Without reverse voltage	175	8500	А
		Sine wave, 10 ms	25	500 x 10 <sup>3</sup>	A²s
l² t	l² t	Without reverse voltage	175	361 x 10 <sup>3</sup>	A <sup>2</sup> s
VF	Forward voltage	On-state current = 1500A	175	1.55	v
V F(TO)	Threshold voltage		175	0.83	V
r <sub>F</sub>	Forward slope resistance		175	0.44	mΩ
R th(j-c)	NG Thermal impedance, sin 180°	Junction to case, double side cooled		0.035	°C/W
R th(c-h)	Thermal impedance	Case to heatsink, double side cooled		0.033	°C/W
T j	Max. junction temperature	Case to heatslink, double side cooled		175	°C
T stg	Storage temperature			-40 175	°C
M	Clamping force			9 - 11	KN
W	Weight (Approx.)			110	gm
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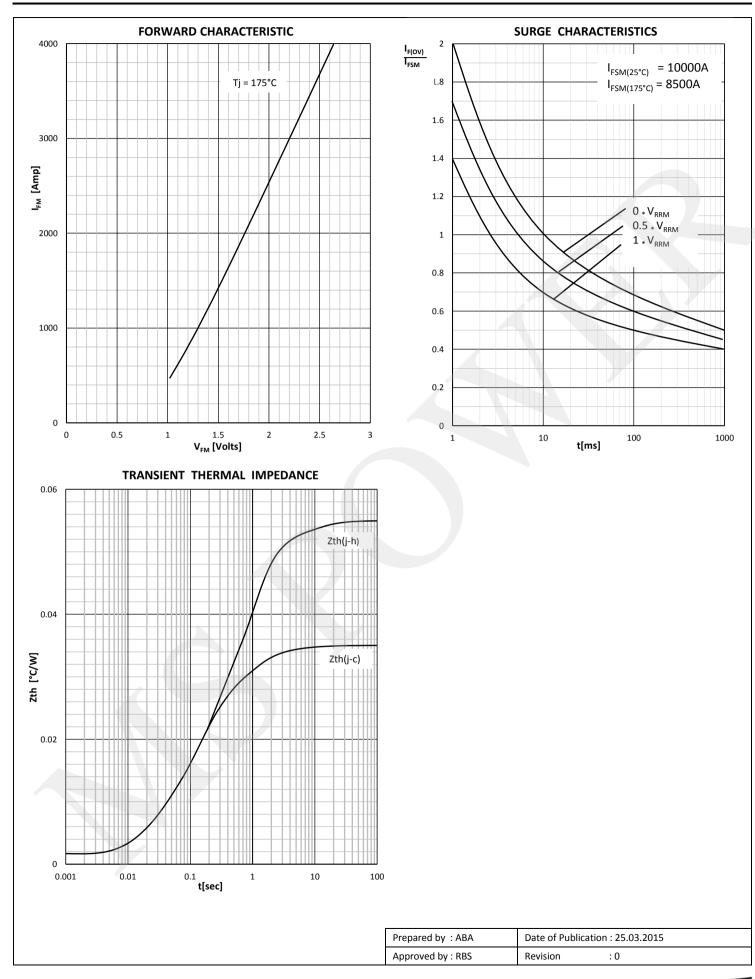
MS D1201





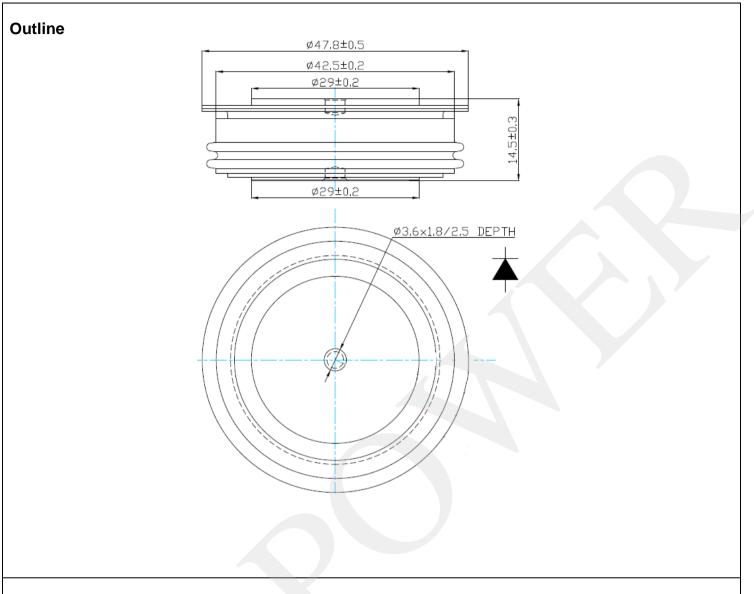
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# MS D1201



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