### **MSZPA36**





Key Paran.

V<sub>RRM</sub> = 36A
= 680A
= 0.85V = 1600V  $= 10.0 \text{m}\Omega$ r<sub>F</sub>

#### **Features**

- Full blocking capability over wide temperature range
- Hermetic metal case with glass insulator
- Threaded stud

## ApplicationsPower Supplies

- Uncontrolled Rectifiers
- Battery Chargers

**Ordering Information** 

MSZPA	36	N	ХX	M
Avalanche Rectifier Diode	Current code	Polarity R= Stud Anode N= Stud Cathode	Voltage Code Code X 100 = V <sub>RRM</sub>	Stud Threads M = Stud M6 X 1 U = 10/32" UNF
Order Code MSZPA36N16M: 1600V V <sub>RRM</sub> , Metric Stud, Avalanche Diode with stud Cathode				

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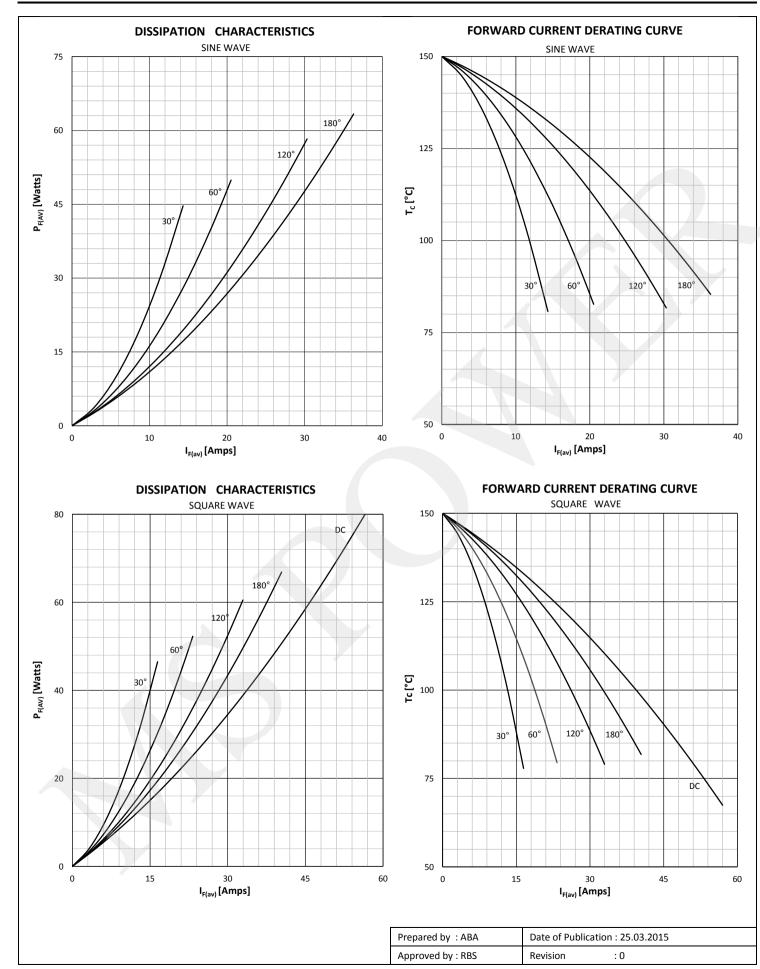


Symbol	Characteristic	Conditions	Tj [°C]	Value	Unit
BLOCKI	NG				
V RRM	Repetitive peak reverse voltage		150	200 - 1600	V
V RSM	Non-repetitive peak reverse voltage		150	400 - 1800	V
I RRM	Repetitive peak reverse current	V= V RRM	150	0.5	mA
I RRM	Repetitive peak reverse current	V= V RRM	150	3	mA
CONDU	CTING				
l F (AV)	Mean forward current	180° sin ,50 Hz, T <sub>c</sub> = 85°C		36	Α
I FRMS	RMS current			57	Α
	Surge forward current	Sine wave, 10 ms With 50% V <sub>RRM</sub>	25	680	А
I FSM			150	600	Α
		Sine wave, 10 ms With 50% V <sub>RRM</sub>	25	2312	A <sup>2</sup> s
l² t	l² t		150	1800	A²s
VF	Forward voltage	On-state current = 90A	150	1.60	V
V F(TO)	Threshold voltage		150	0.85	V
r <sub>F</sub>	Forward slope resistance		150	10	mΩ
P <sub>RSM</sub>	Non-repetitive peak reverse power	10μs square wave	25	18	kW
MOUNTI	NG			<u> </u>	
R th(j-c)	Thermal impedance, sin 180°	Junction to case		0.85	°C/W
R th(c-h)	Thermal impedance	Case to heatsink		0.25	°C/W
Τj	Max. junction temperature			150	°C
T stg	Storage temperature			-40 150	°C
М	Mounting torque			2	NM
W	Weight (Approx.)			12	gm

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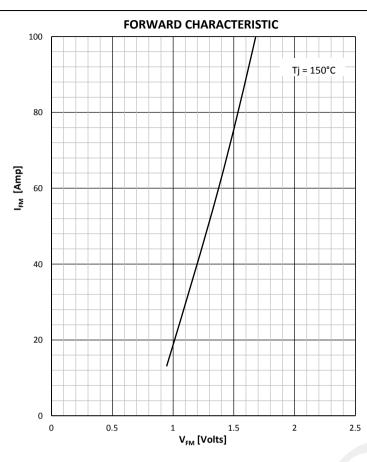
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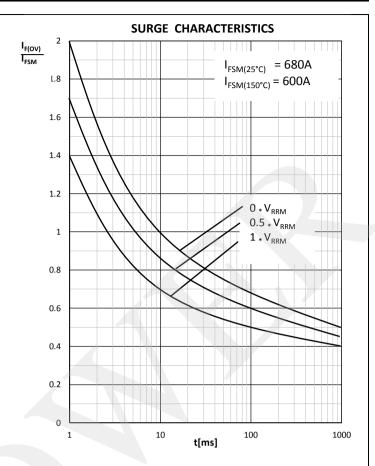




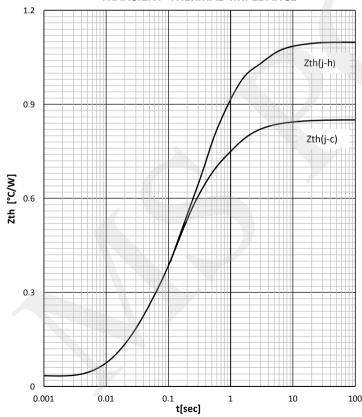
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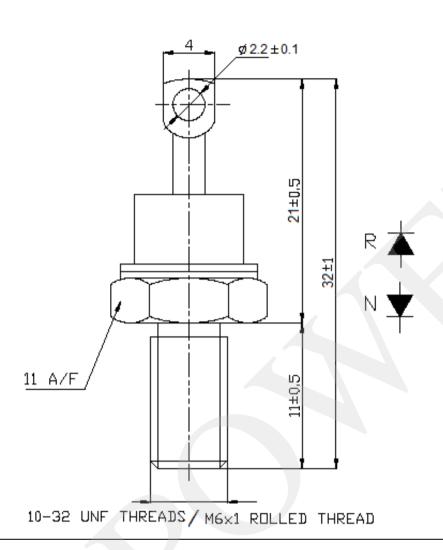


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### **MSZPA36**



#### **Outline**





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#### MSZPA36



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