

产品规格书

DATA SHEET

客户名称 : _____
产品名称 : 单相整流桥
产品型号 : MSB301~MSB310
产品描述 : 玻璃钝化芯片整流桥
3.0 A
物料编码 : _____

制作 Prepared by	审核 Audit by	批准 Approved by

客户确认 Customer Signature

乐山希尔电子股份有限公司

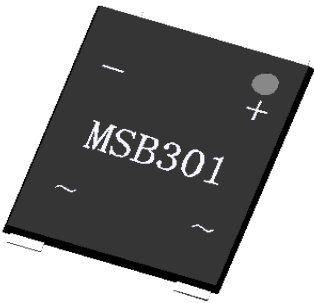
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3.0A Single-Phase Bridge Rectifier

Features	Outline Drawing
<ul style="list-style-type: none"> ●Glass passivated chip ●Ideal for automated placement ●Low Reverse Leakage Current ●High surge current capability ●Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C 	
Mechanical Data	
<ul style="list-style-type: none"> ●Package: MSB ●Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant,; ●Case: Molded plastic case ●Marking / Polarity: Marked on Body 	

Type	V _{RRM} (V)	V _{RMS} (V)	V _{DC} (V)
MSB301	100	70	100
MSB302	200	140	200
MSB304	400	280	400
MSB306	600	420	600
MSB308	800	560	800
MSB310	1000	700	1000

Maximum Ratings and Thermal Characteristics @ Ta = 25°C unless otherwise noted				
Item	Symbol	Conditions	Rated value	Unit
Average Rectified Output Current	I _o	50Hz sine wave load, Ta=40°C	3.0	A
Peak Surge Forward Current	I _{fsm}	50HZ half sine wave, 1 cycle, Ta=40°C	90	A
Rating for fusing	i ² t	1ms < t < 8.3ms, T _j =25°C, Rating of per diode	33.6	A ² s
Storage Temperature	T _{stg}		-55 ~ +150	°C
Junction Temperature	T _j		-55 ~ +150	°C

Electrical Characteristics @ Ta = 25°C unless otherwise noted					
Item	Symbol	Conditions	Rated value	Unit	
Peak Forward Voltage	V _F	I _F =3.0A, Pulse measurement Rate of per diode	1.1	V	
Peak Reverse Current	I _R	V _R =V _{RRM} , Pulse measurement, Rating of per diode	T _J =25°C	5	uA
			T _J =100°C	100	uA
Thermal resistance	R _{θJ-A}	Between junction and ambient	55.0	°C/W	
	R _{θJ-C}	Between junction and case	10.0		
	R _{θJ-L}	Between junction and lead	15.0		

Rating Characteristic

FIG.1: I_o -Tc Curve

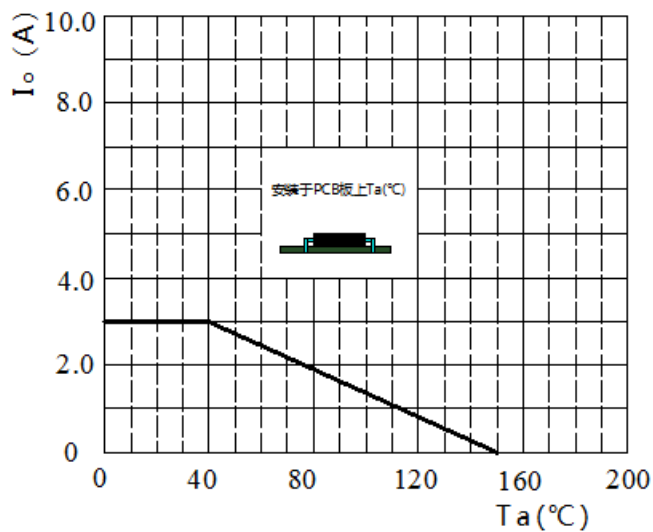


FIG.2 : Surge Forward Current Capability

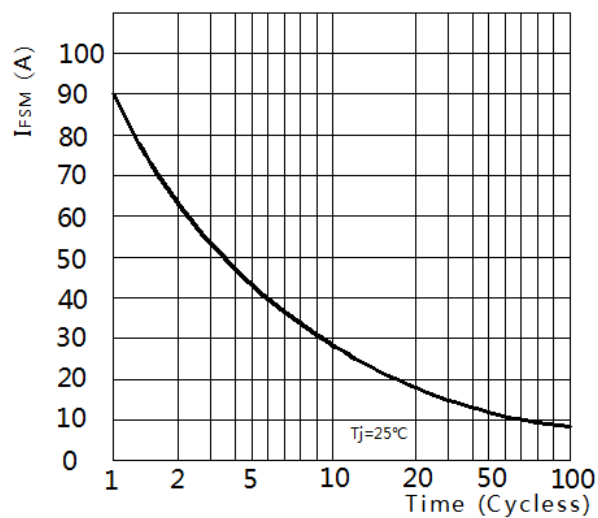


FIG3: Typical Reverse Characteristics

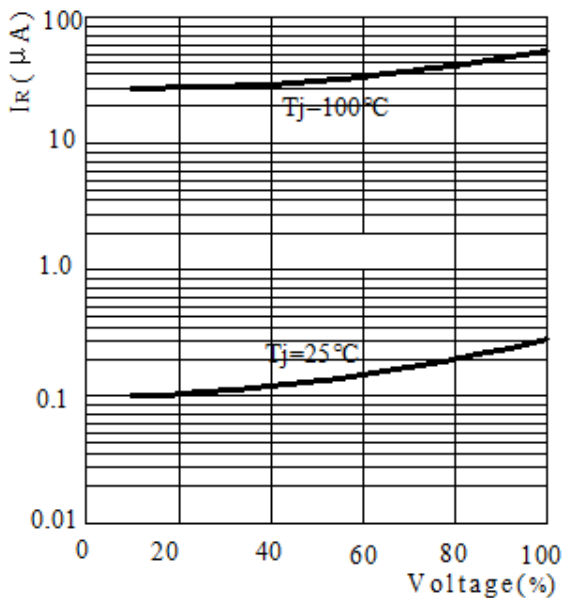
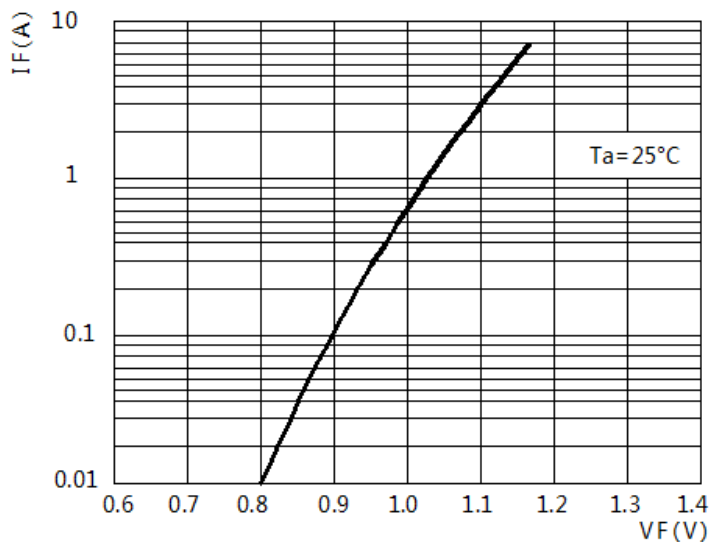
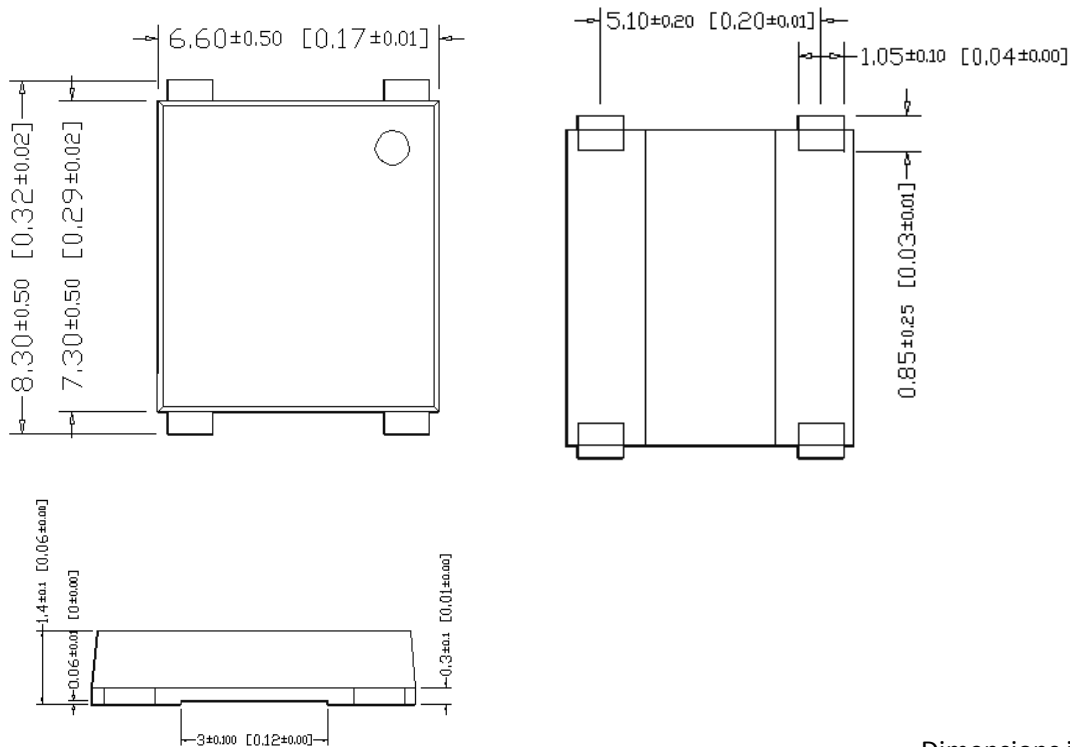


FIG4: Typical Forward Characteristics



Outline Dimensions



Dimensions in mm(inches)

Marking



1. MSB: Package ;
2. 3: I_o ;
3. 01: V_{rrm} , eg: 01=1*100=100V;

变更履历

序号	变更内容	更改原因	变更人	更改时间
1	新增	新增	孙晓佳	2018-11-24
2	最大正向浪涌电流 80 A 修改为 90 A	/	王伟	2019-06-18