

**/ Descriptions**

1.2A MBS  
1.2A Surface Mount Glass Passivated Bridge Rectifier, MBS package.

**/ Features**

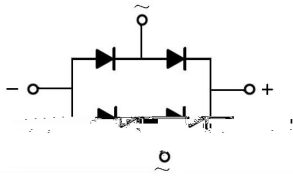
100V~1000V 1.2A

Glass Passivated Chip Junction, Reverse Voltage:100to1000V, Forward Current:1.2A, High Surge Current Capability, Designed for Surface Mount Application.Halogen free product.

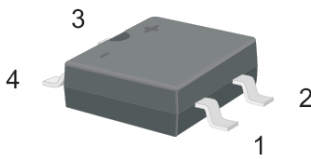
**/ Applications**

General purpose.

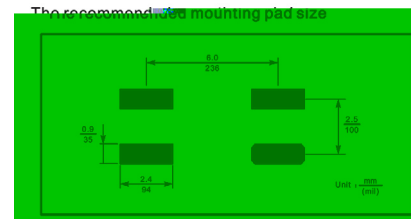
**/ Equivalent Circuit**



**/ Pinning**



PIN	DESCRIPTION
1	Input Pin ( ~ )
2	Input Pin ( ~ )
3	Output Anode ( + )
4	Output Cathode ( - )



**/ Marking**

See Marking Instructions.

**/ Absolute Maximum Ratings(Ta=25 )**

Parameter	Symbol	Rating						Unit
		MB1S-12	MB2S-12	MB4S-12	MB6S-12	MB8S-12	MB10S-12	
Maximum Repetitive Peak Reverse Voltage	$V_{RRM}$	100	200	400	600	800	1000	V
Maximum RMS voltage	$V_{RMS}$	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	100	200	400	600	800	1000	V
Average Rectified Output Current at $T_a = 125$	$I_F$	1.2						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	$I_{FSM}$	40						A
Typical Junction Capacitance <small>Note1</small>	$C_j$	18						pF
Typical Thermal Resistance <small>Note2</small>	$R_{\theta JA}$	75						/W
Typical Thermal Resistance <small>Note2</small>	$R_{\theta JL}$	25						/W
Operating and Storage Temperature Range	$T_j, T_{stg}$	-55~+150						

Note:

1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with 4× 1.5"× 1.5" 3.81× 3.81 cm copper pad.

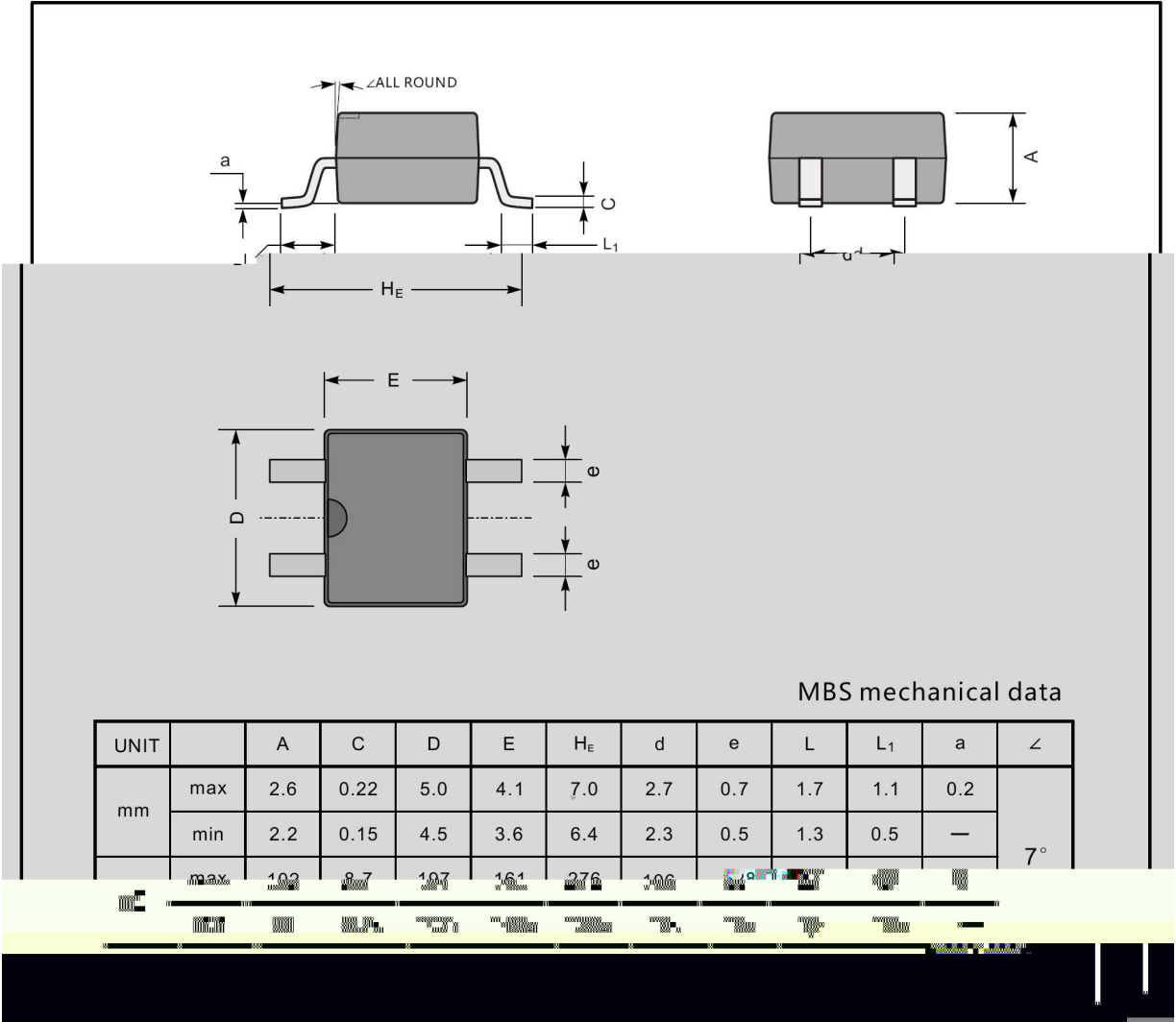
**/ Electrical Characteristics(Ta=25 )**

Parameter	Symbol	Test condition	Rating	Unit
Maximum Forward Voltage	$V_F$	$I_F=1.2A$	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	$I_R$	$T_a=25$ $T_a=125$	5.0 80	$\mu A$

**MB1S-12~MB10S-12**  
Rev.A May.-2019

/ Package Dimensions

MBS



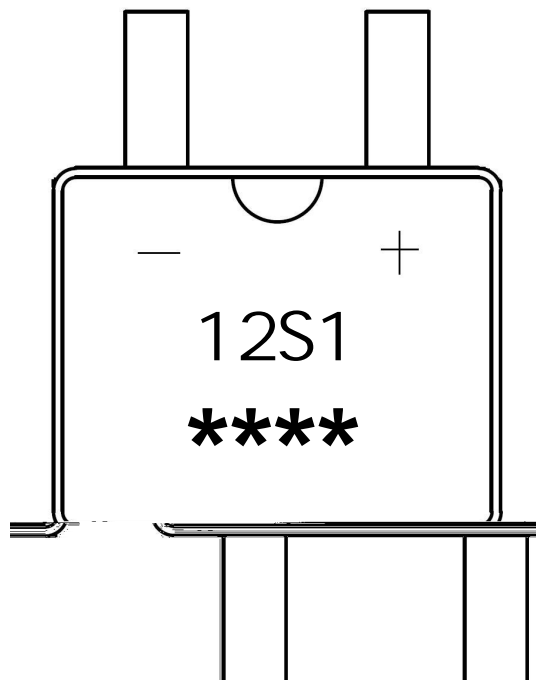
/ Marking Instructions

# Marking

Type number	Marking code
MB1S-12	12S1
MB2S-12	12S2
MB4S-12	12S4
MB6S-12	12S6



/ Marking Instructions



12S1  
\*\*\*\*\*

1 \*

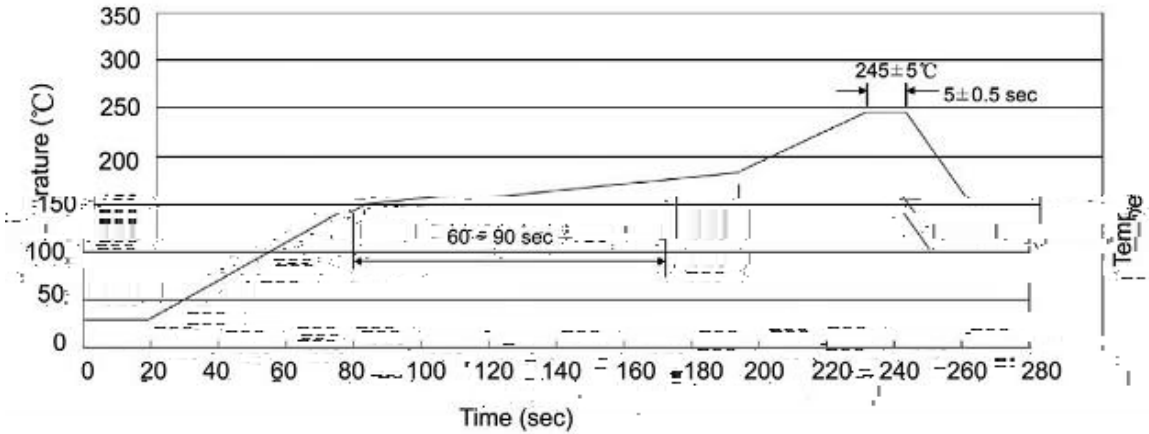
3 \*

Note:

12S1 Product Type Code

\*\*\*\*\* Lot No. Code The 1st \* means:YM Code The last 3 \* means:little Lot No Code

( ) / Temperature Profile for IR Reflow Soldering(Pb-Free)



Note:

- |   |       |     |       |          |  |
|---|-------|-----|-------|----------|--|
| 1 | 150   | 180 | 60    | 90sec;   | 1.Preheating:150~180 , Time:60~90sec.    |
| 2 | 245±5 |     | 5±0.5 | sec;     | 2.Peak Temp.:245±5 , Duration:5± 0.5sec. |
| 3 |       |     | 2     | 10 /sec. | 3. Cooling Speed: 2~10 /sec.             |

/ Resistance to Soldering Heat Test Conditions

260±5                      10± 1 sec.                      Temp.:260±5                      Time:10±1 sec

/ Packaging SPEC.

/ REEL

Package Type 封装形式	Units 包装数量					Dimension 包装尺寸 (unit: mm <sup>3</sup> )		
	只 卷盘	卷盘 盒	只 盒	盒 箱	只 箱	盒	箱	
MBS	3000	2	6000	5	30000	13 x15	336X336X40	380X335X366

/ Notices