

Rev.A May.-2019

1.2A

MBS

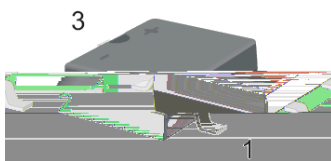
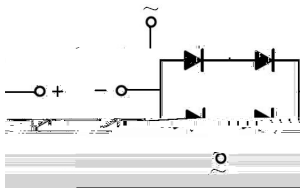
1.2A Surface Mount Glass Passivated Bridge Rectifier, MBS package.

100V~1000V

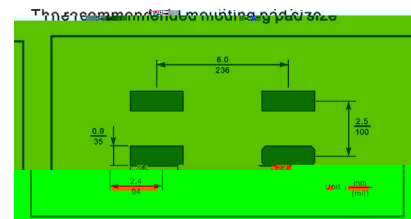
1.2A

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

General purpose.



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



See Marking Instructions.

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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 ^{Note1}	C_j	18						pF
Typical Thermal Resistance ^{Note2}	$R_{\theta JA}$	75						/W
Typical Thermal Resistance ^{Note2}	$R_{\theta JL}$	25						/W
Operating and Storage Temperature Range	T_j, T_{stg}	-55~+150						

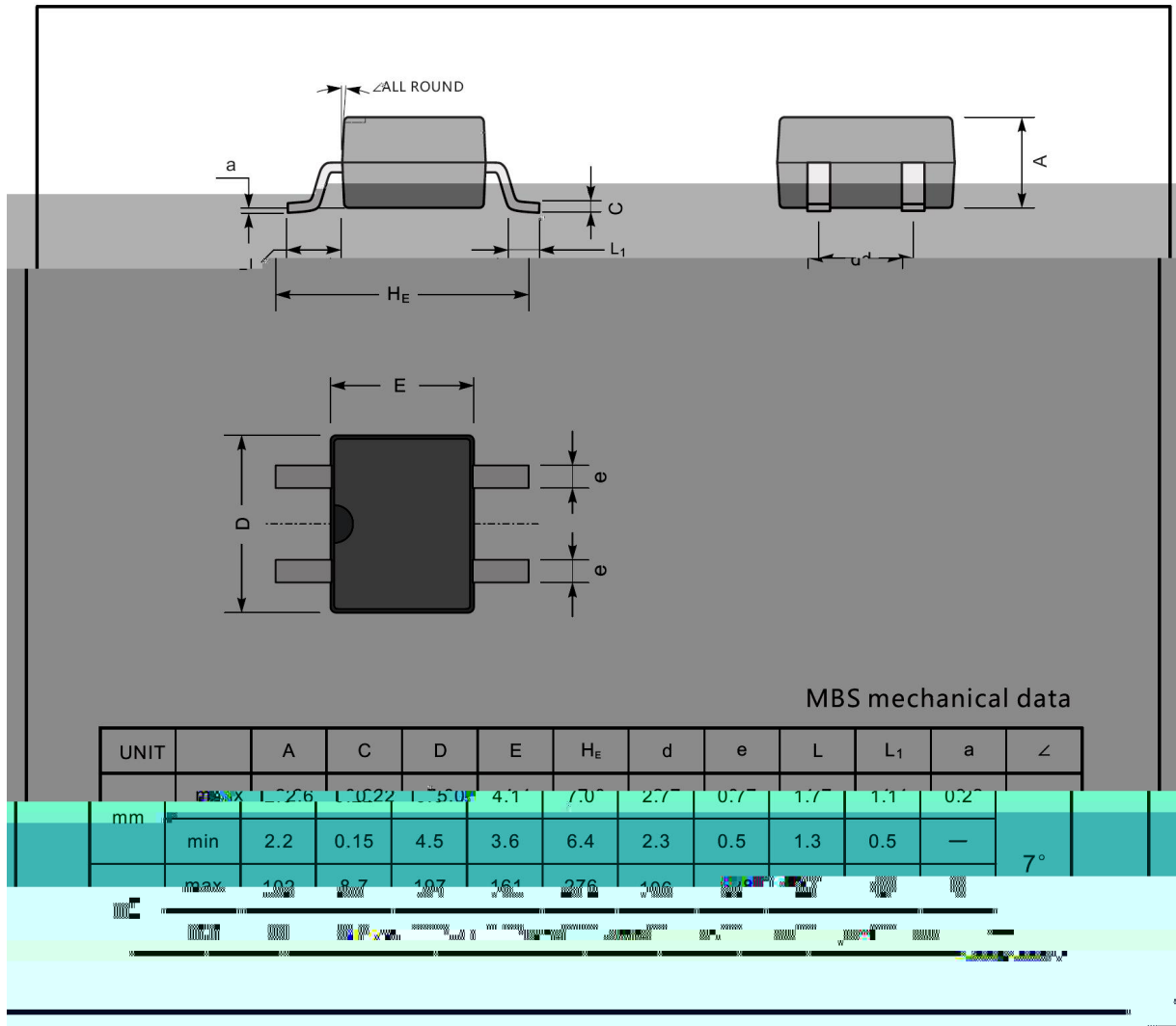
Note:

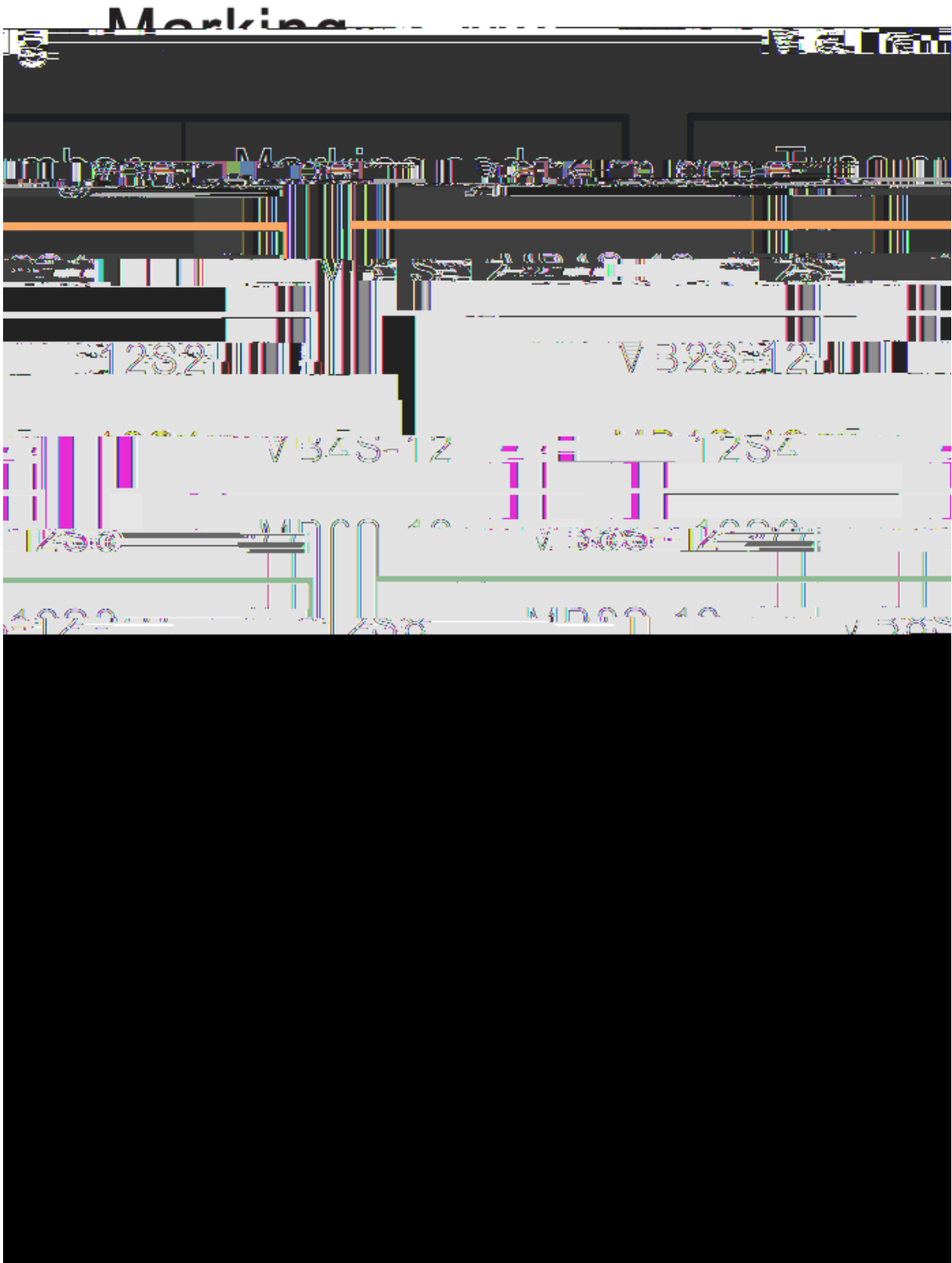
1. Measured at 1MHz and applied reverse voltage of 4 V D.C.
2. Mounted on glass epoxy PC board with $4 \times 1.5" \times 1.5"$ 3.81×3.81 cm copper pad.

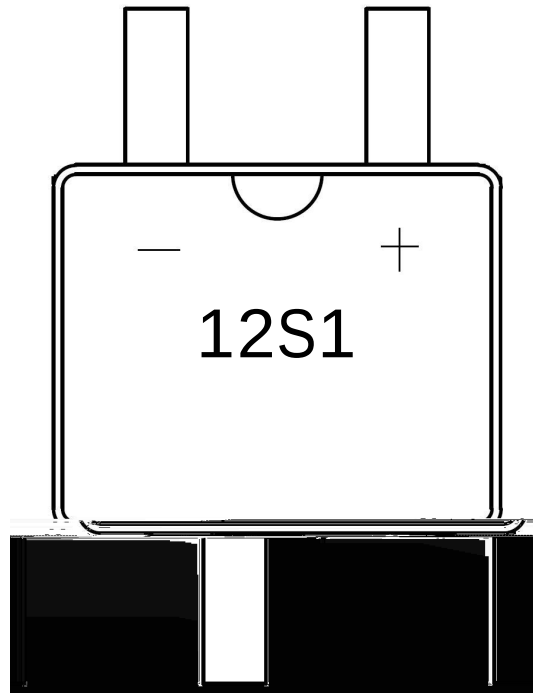
Parameter	Symbol	Test condition	Rating	Unit
Maximum Forward Voltage	V_F	$I_F=1.2A$	1.1	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I_R	$T_a=25$ $T_a=125$	5.0 80	μA

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MBS







12S1

1 *

3 *

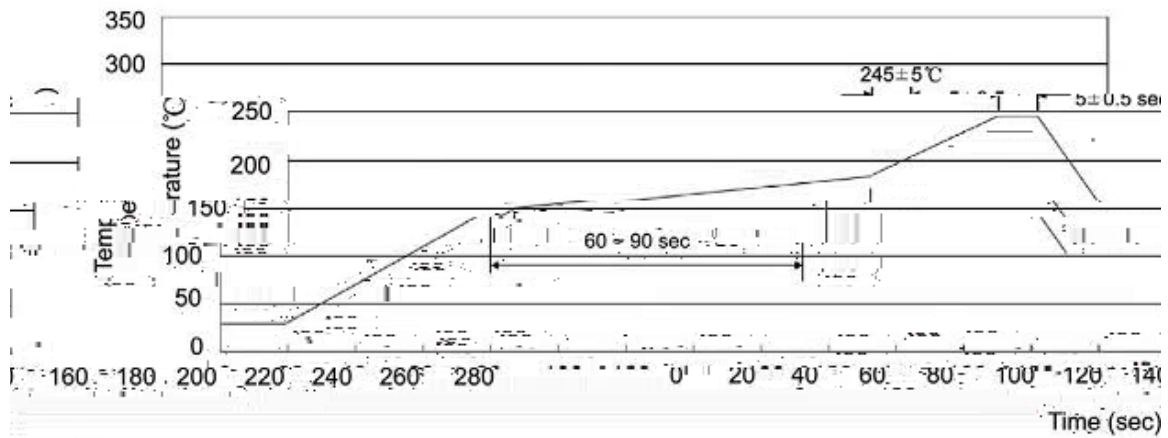
Note:

12S1 Product Type Code

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

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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±0.5sec; | | 2.Peak Temp.:245±5 , Duration:5±0.5sec. |
| 3 | | 2 | 10 | /sec. | 3. Cooling Speed: 2~10 /sec. |

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