

/ Descriptions

1.0A MBS
1.0A Surface Mount Schottky Bridge Rectifier, MBS package.

/ Features

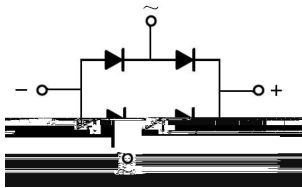
40V~200V 1.0A

Glass Passivated Chip Junction, Reverse Voltage:40to200V, Forward Current:1.0A, High Surge Current Capability, Designed for Surface Mount Application.Halogen free product.

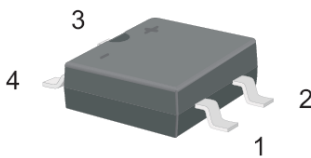
/ Applications

General purpose.

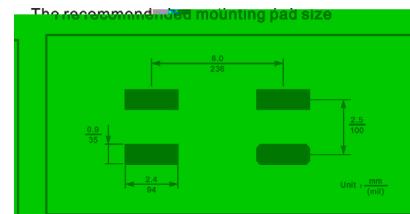
/ Equivalent Circuit



/ Pinning



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



/ Marking

See Marking Instructions.

/ Absolute Maximum Ratings(Ta=25)

Parameter	Symbol	Rating						Unit
		MB14S	MB16S	MB18S	MB110S	MB115S	MB120S	
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	40	60	80	100	150	200	V
Maximum RMS voltage	V _{RMS}	28	42	56	70	105	140	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	150	200	V
Maximum Average Forward Rectified Current at T _C = 100	I _{F(AV)}	1.0						A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	40			30			A
Typical Junction Capacitance Note1	C _j	110	80					pF
Typical Thermal Resistance Note2	R _{θJA}	100						°C/W
Operating Junction Temperature Range	T _j	-55~+125						°C
Storage Temperature Range	T _{stg}	-55~+150						°C

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 3.81cm² copper pad..

/ Electrical Characteristics(Ta=25)

Parameter	Symbol	Test condition	Rating				Unit
Max Instantaneous Forward Voltage	V_F	$I_F=1.0A$	0.55	0.70	0.85	0.90	V
Maximum DC Reverse Current at Rated DC Reverse Voltage	I_R	$T_a=25^{\circ}C$ $T_a=100$	0.3 10		0.2 5	0.1 2	mA

/ Electrical Characteristic Curve

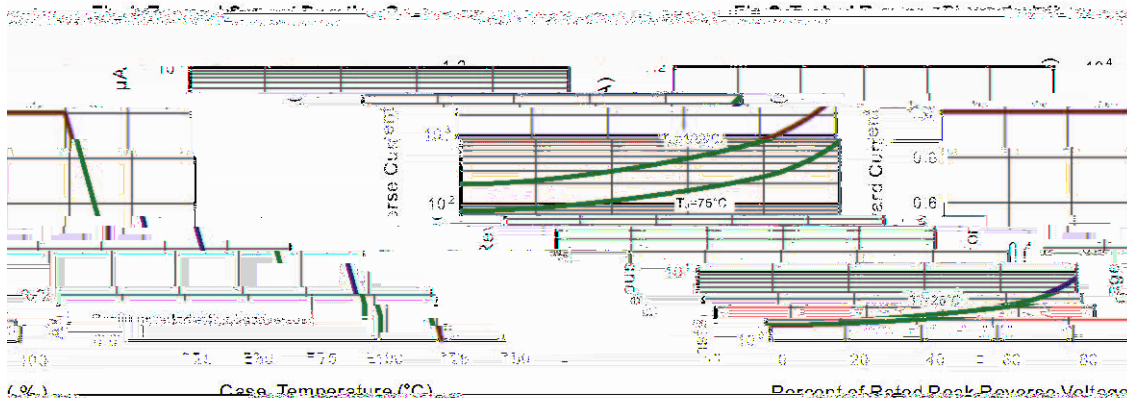
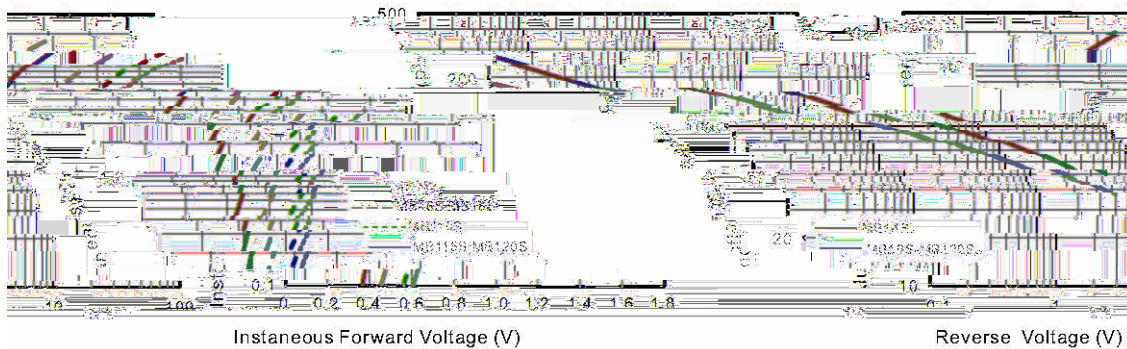


Fig.4 Typical Junction Capacitance



Instantaneous Forward Voltage (V)

Reverse Voltage (V)

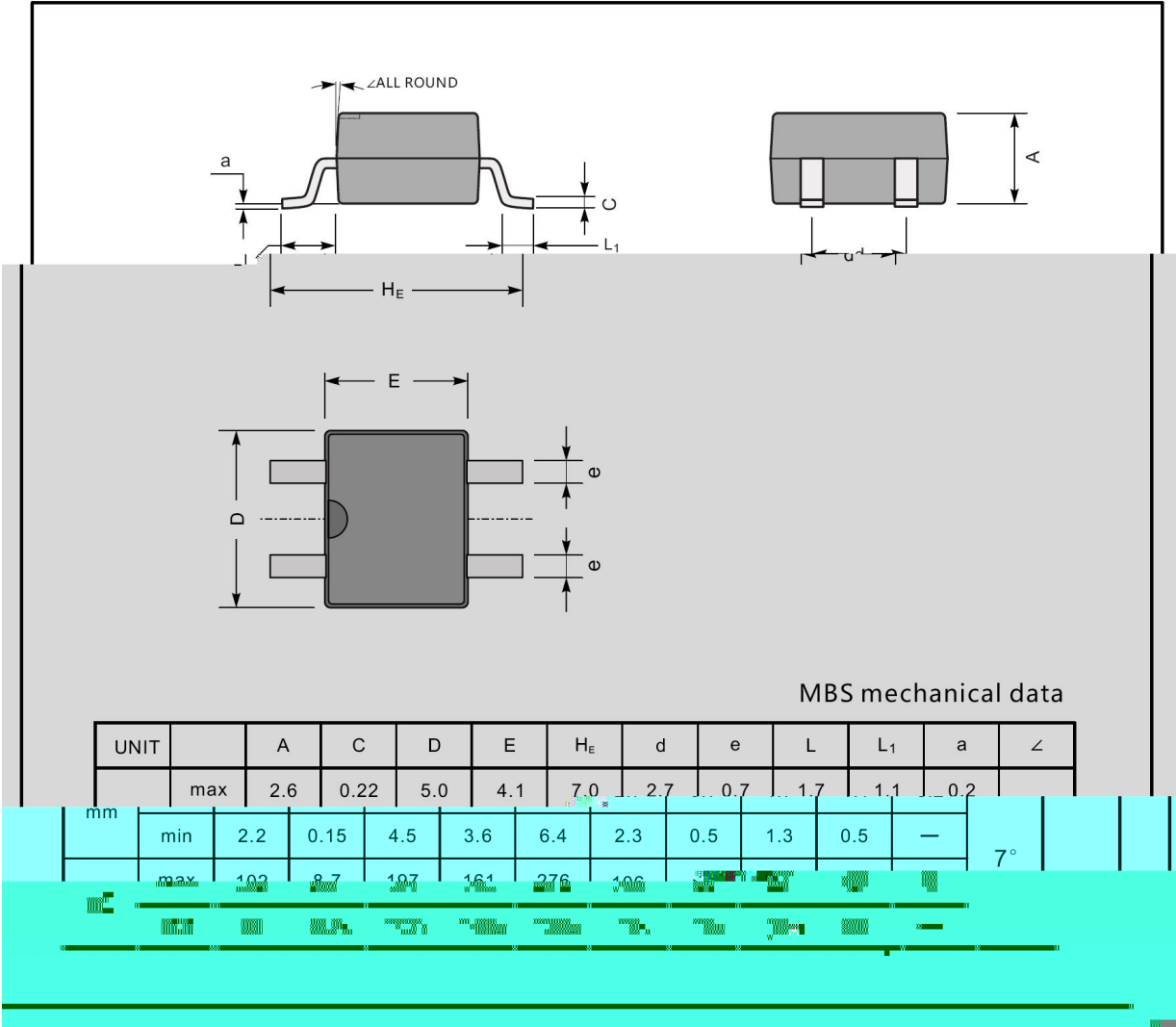


Pulse Duration (sec)

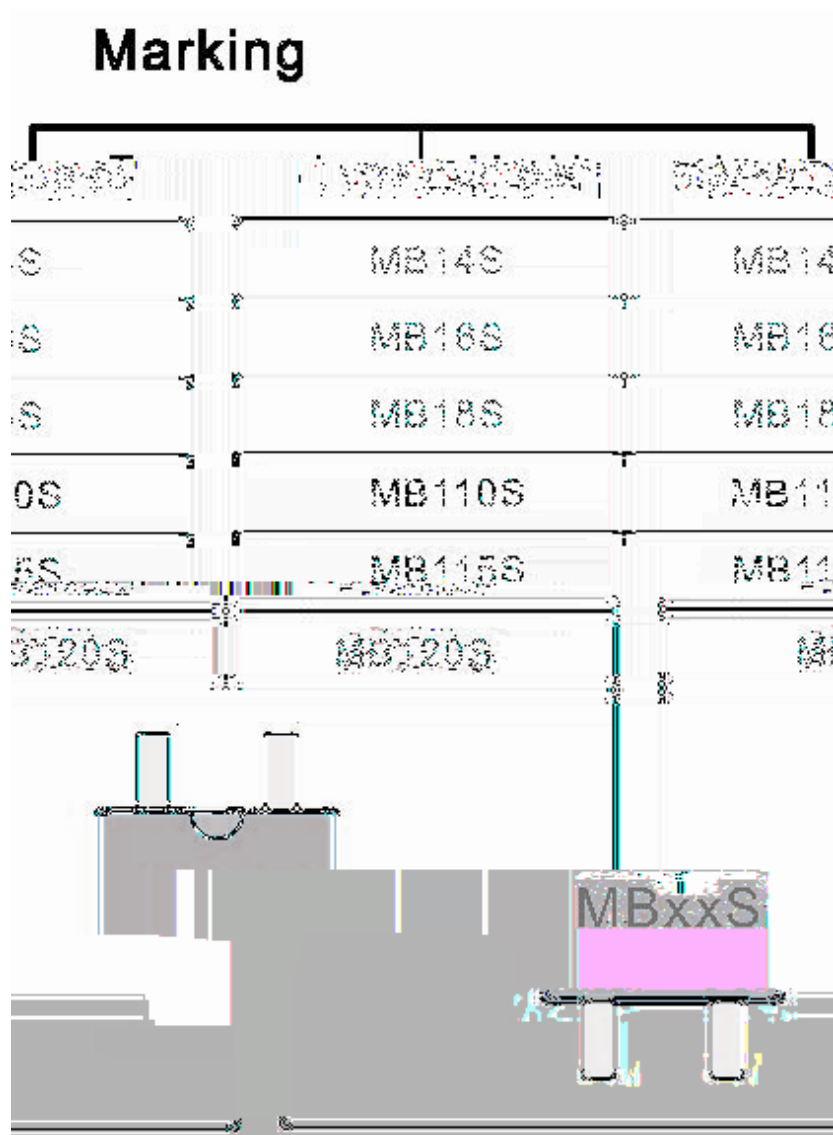
Number of Cycles at 60Hz

/ Package Dimensions

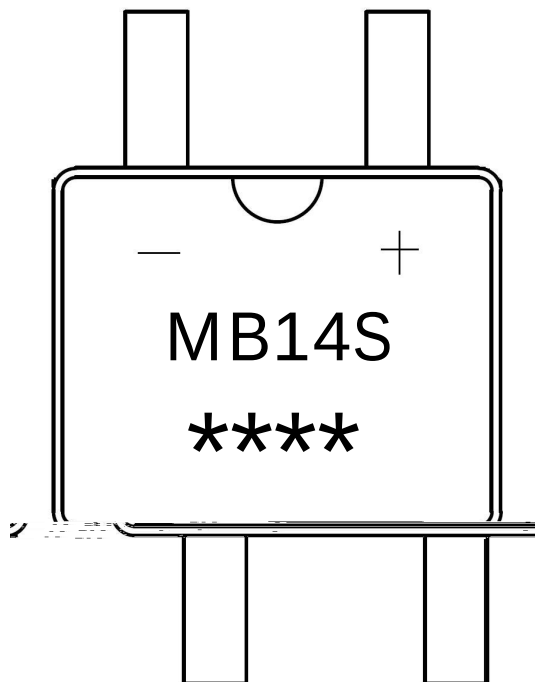
MBS



/ Marking Instructions



/ Marking Instructions



MB14S

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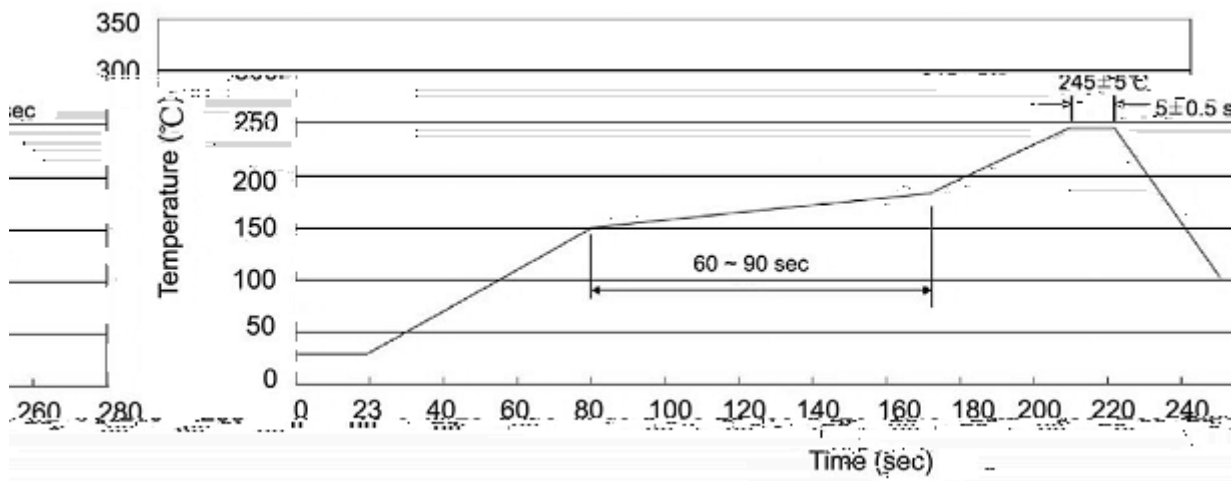
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Note:

MB14S Product Type Code

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

() /



Note:

- | | | | | | |
|---|----|-------|----|-----------|---|
| 1 | 25 | 150 | 60 | 90sec; | 1.Preheating:25~150 , 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. |

/ Resistance to Soldering Heat Test Conditions

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

/ Packaging SPEC.

/ REEL

Package Type	Units					Dimension (unit mm ³)		
	Units/Reel	Reels/Inner Box	Units/Inner Box	Inner Boxes/Outer Box	Units/Outer Box	Reel	Inner Box	Outer Box
MBS	3000	2	6000	5	30000	13 ×15	336X336X40	380X335X366

/ Notices