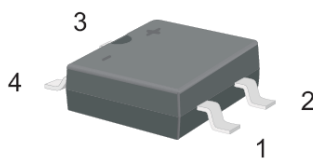
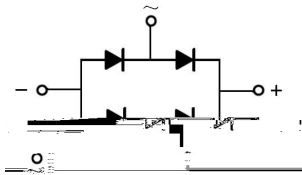


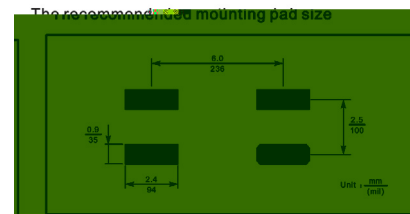
1.0A MBS
1.0A Surface Mount Schottky Bridge Rectifier, MBS package.

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.

General purpose.



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



See Marking Instructions.

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 $4 \times 1.5" \times 1.5"$ ($3.81 \times 3.81\text{cm}^2$ copper pad..

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	$T_a=25^\circ\text{C}$ $T_a=100$	0.3 10		0.2 5	0.1 2	mA

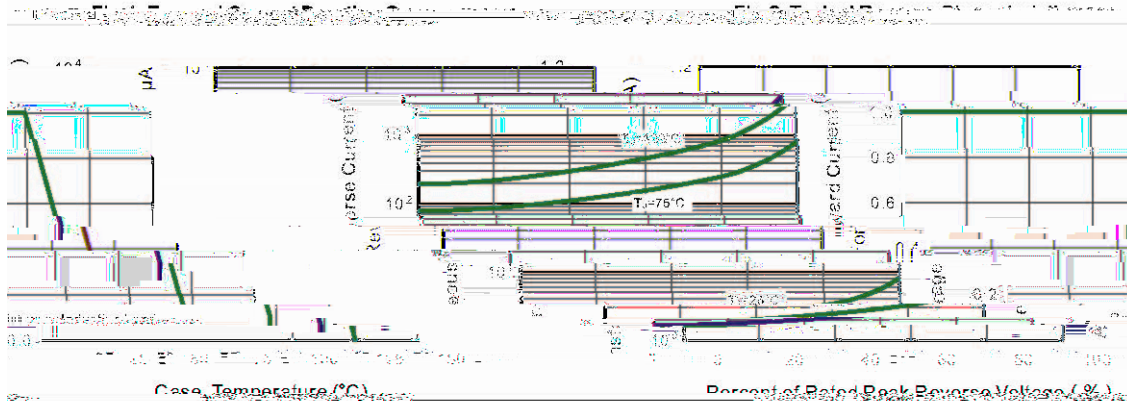
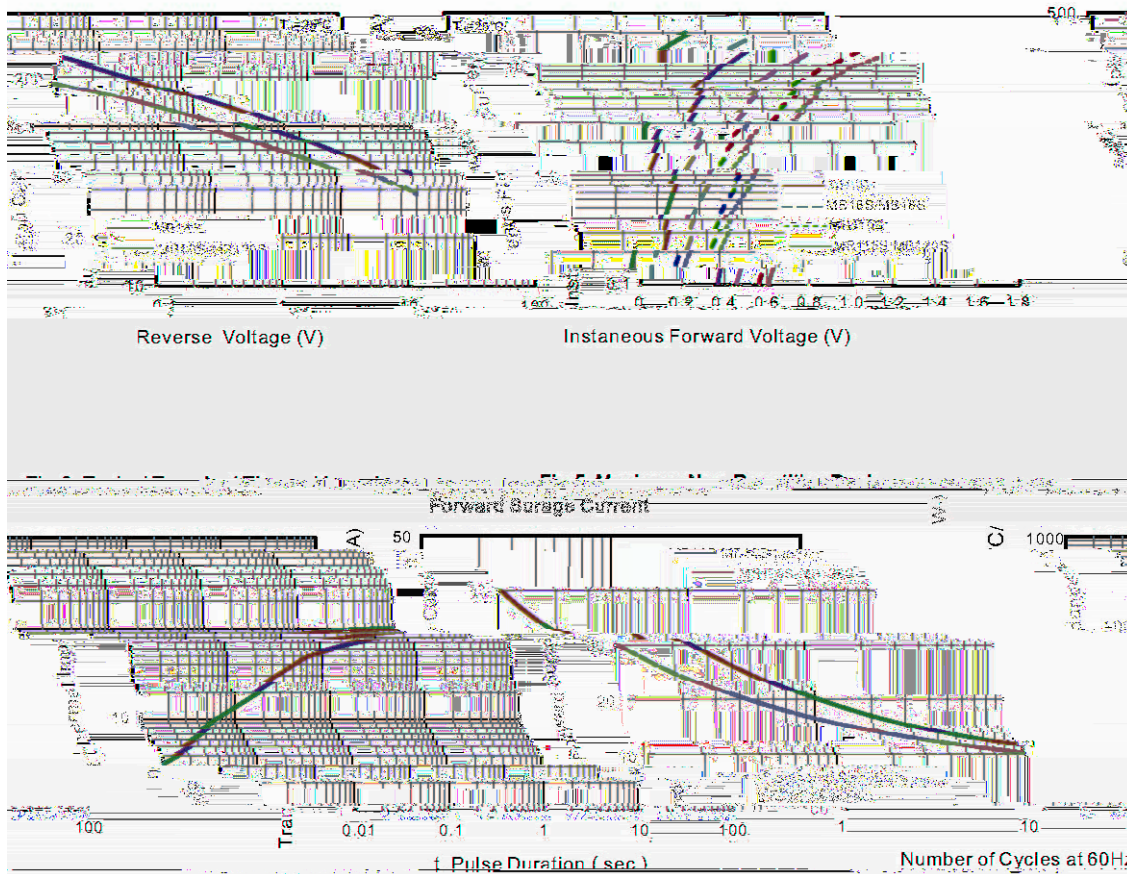
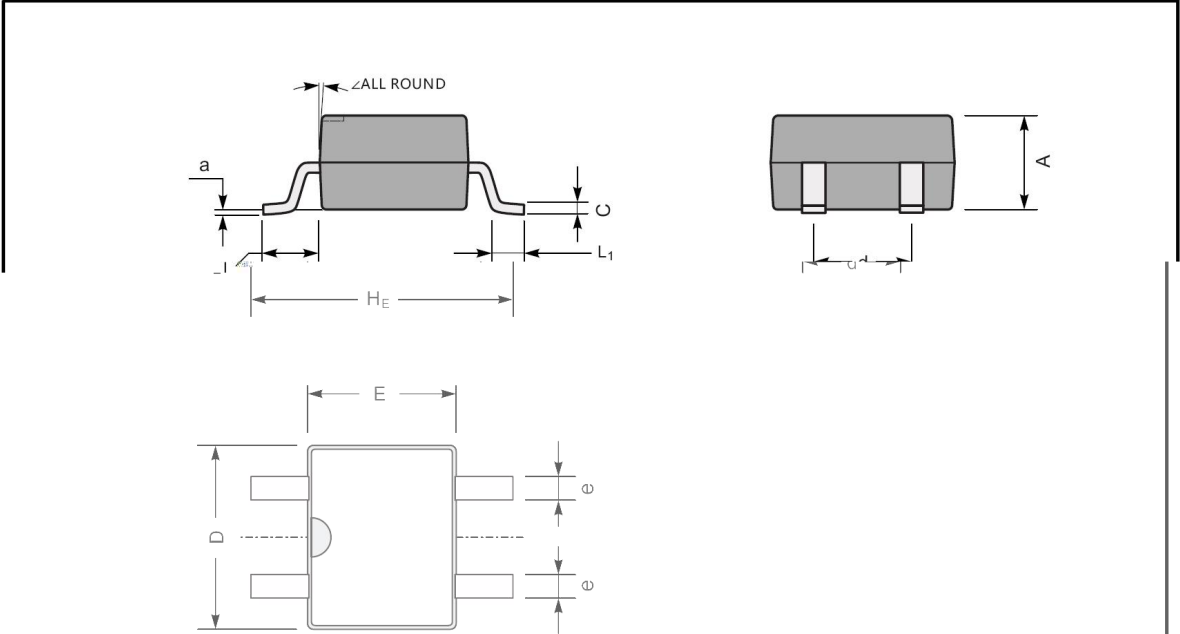


Fig. 4 Typical Junction Capacitance



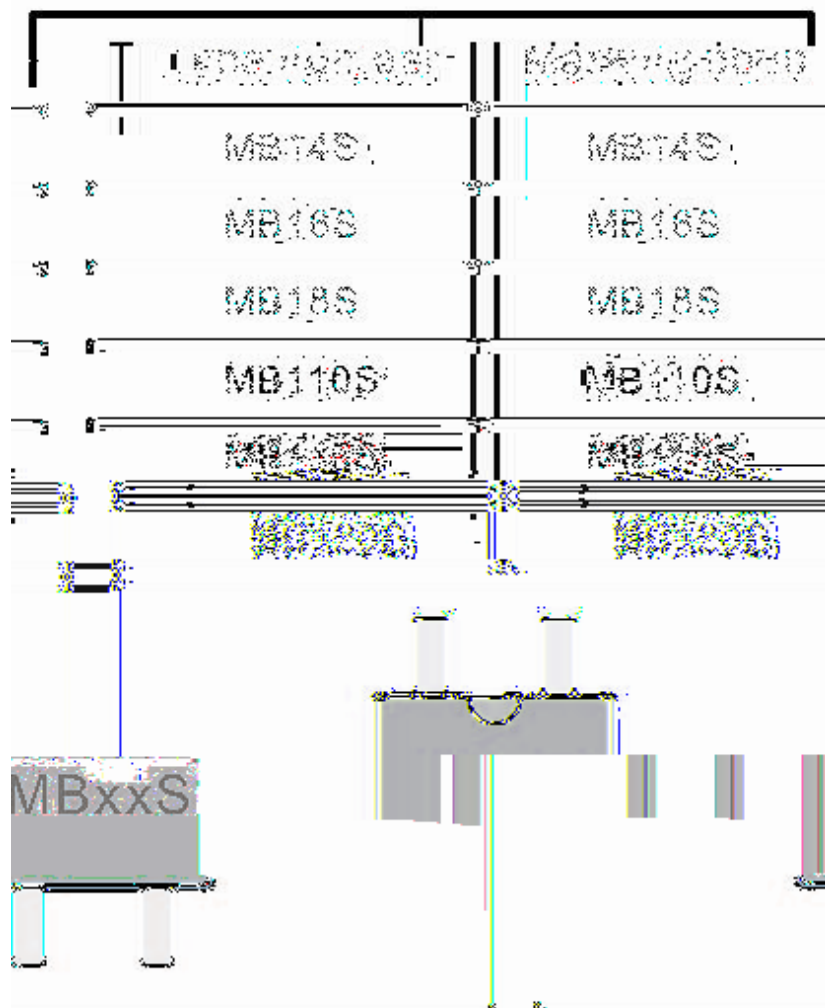
MBS

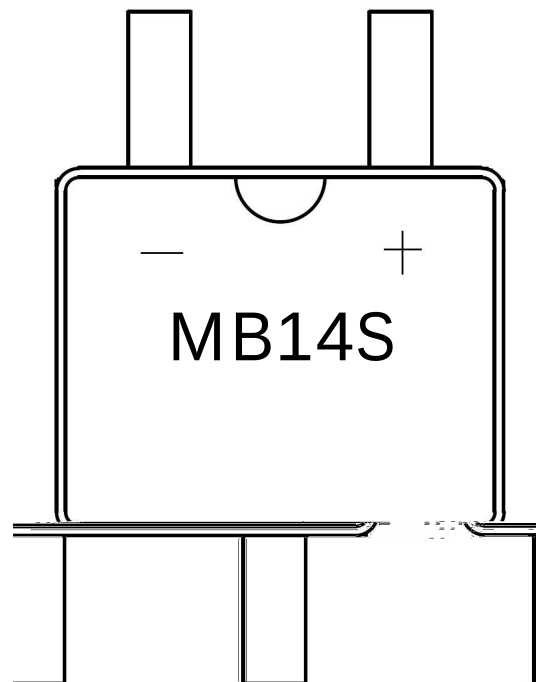


MBS mechanical data

UNIT		A	C	D	E	H _E	d	e	L	L ₁	a	∠
mm	max	2.6	0.22	5.0	4.1	7.0	2.7	0.7	1.7	1.1	0.2	7°
	min	2.2	0.15	4.5	3.6	6.4	2.3	0.5	1.3	0.5	—	

Marking





MB14S

1

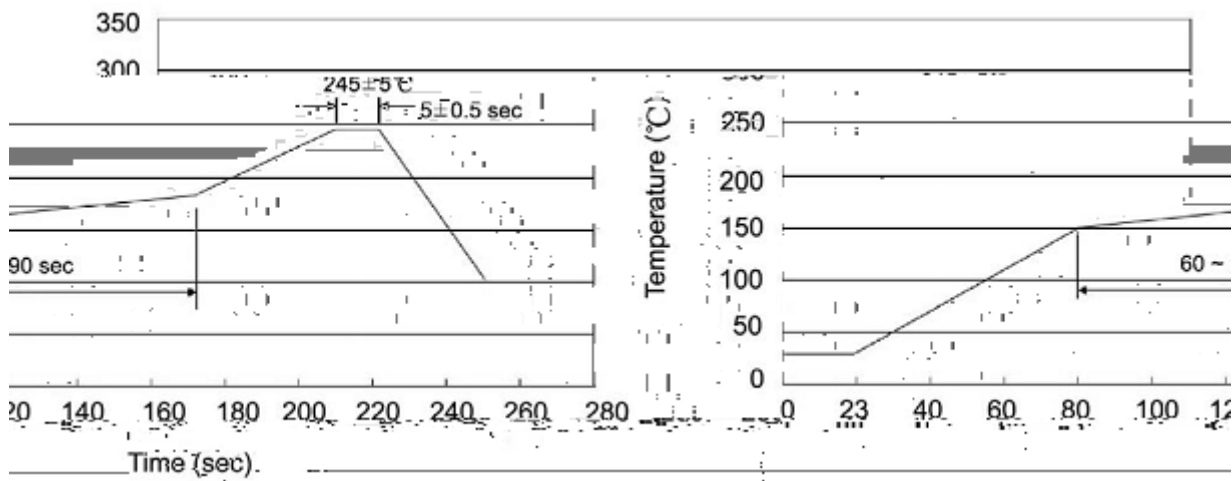
3

Note:

MB14S Product Type Code

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

No Code



- 1

25 150

60 90sec;

2

245±5

5±0.5sec;

3

2 10 /sec.
- Note:

1.Preheating:25~150 , Time:60~90sec.

2.Peak Temp.:245±5 , Duration:5±0.5sec.

3. Cooling Speed: 2~10 /sec.

260±5

10±1 sec.

Temp.:260±5℃

Time:10±1 sec

/ 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