

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 <small>Note1</small>	C_j	110	80				pF	
Typical Thermal Resistance <small>Note2</small>	$R_{\theta JA}$	100						$^{\circ}C/W$
Operating Junction Temperature Range	T_j	-55~+125						$^{\circ}C$
Storage Temperature Range	T_{stg}	-55~+150						$^{\circ}C$

Note:

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

Parameter	Symbol	Test condition	Rating				Unit
			0.55	0.70	0.85	0.90	
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

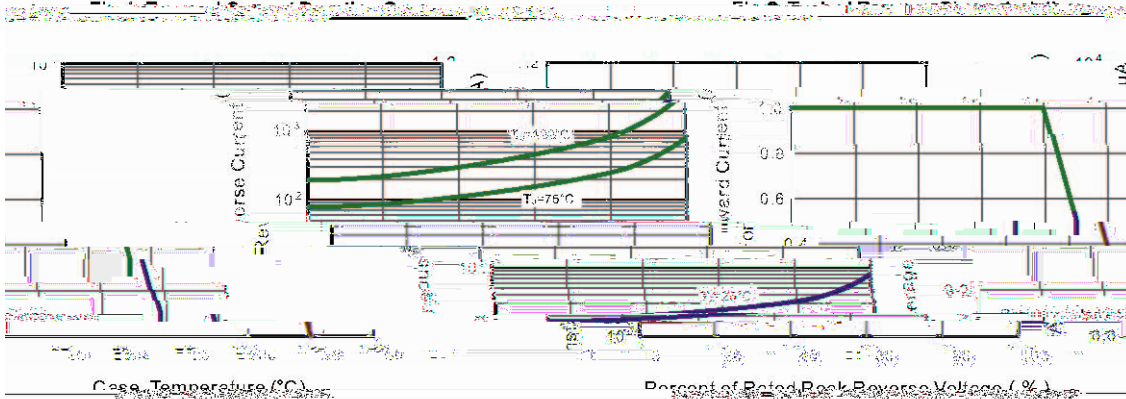
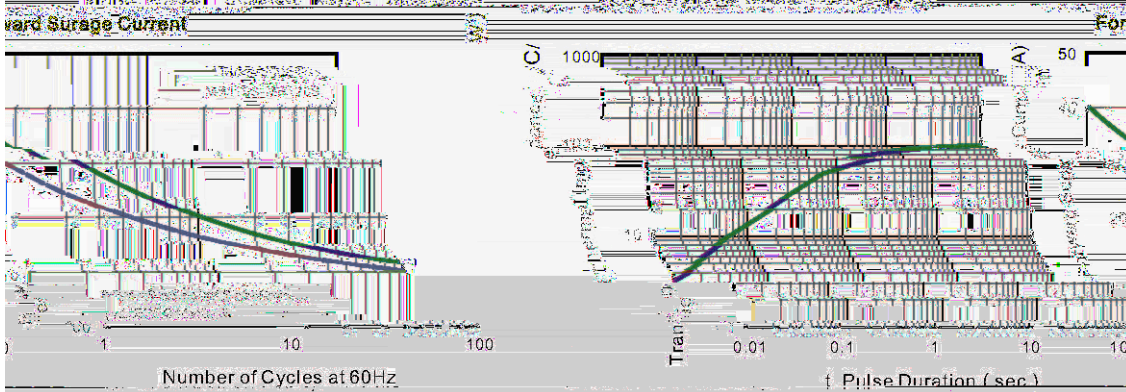
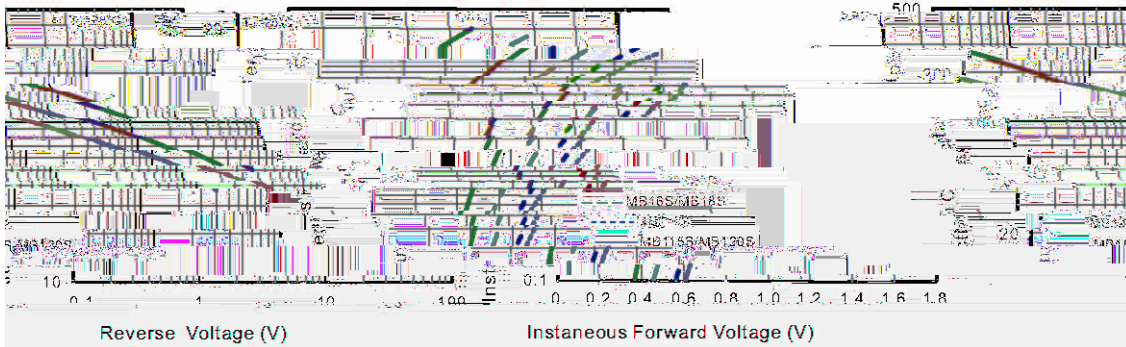
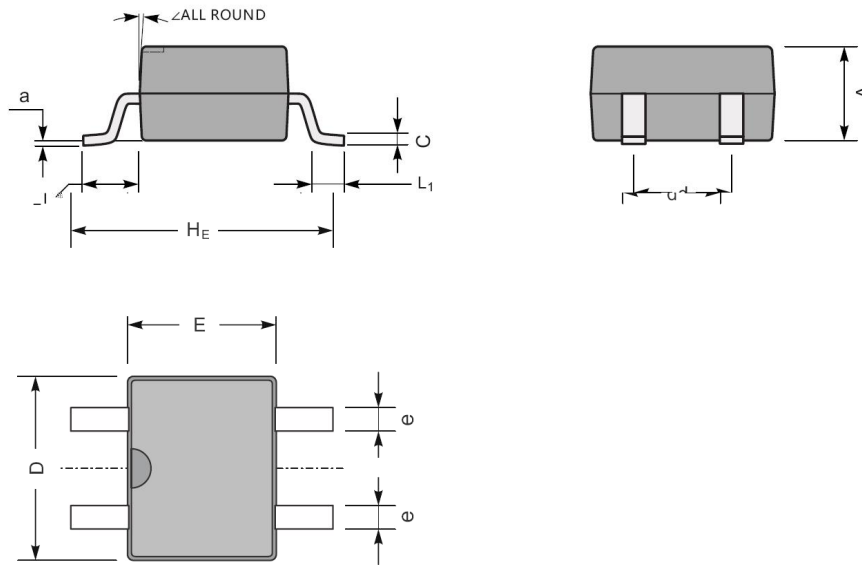


Fig. 4 Typical Junction Capacitance

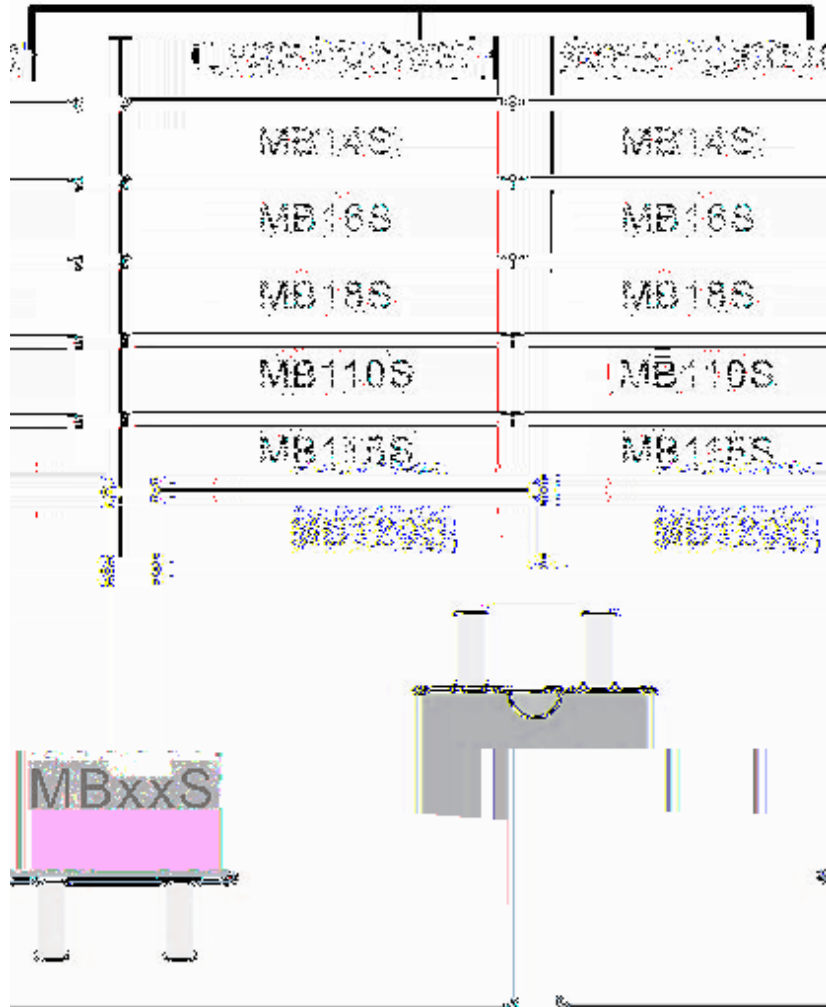


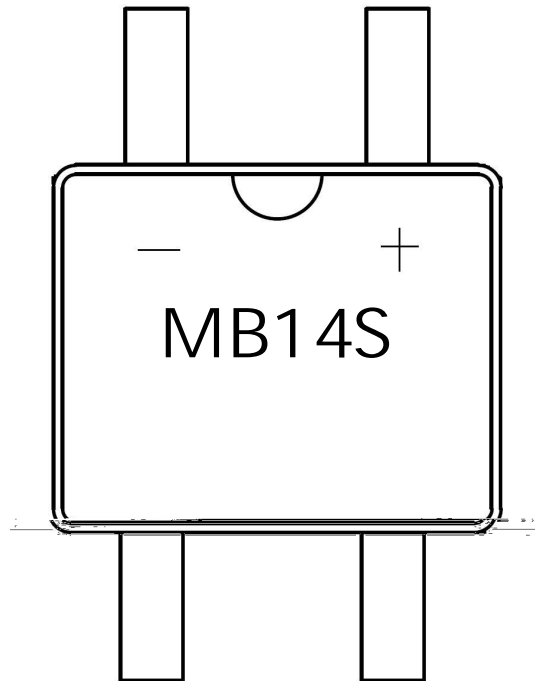
MBS


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	—	
	max	102	8.7	107	161	276	100					

Marking





MB14S

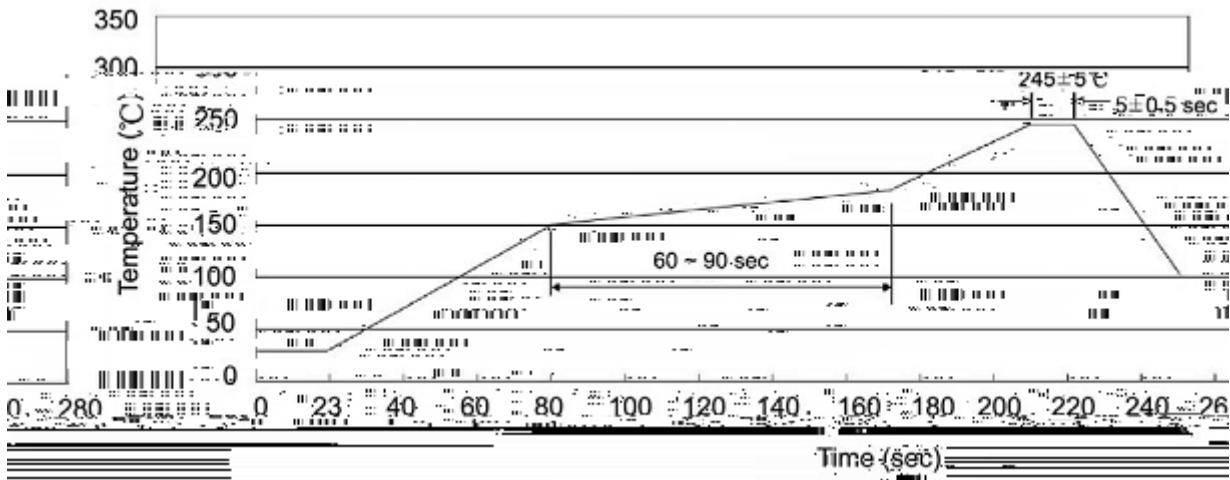
1 *

3 *

Note:

MB14S Product Type Code

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

Temperature Profile for IR Reflow Soldering(Pb-Free)


Note:

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

260±5

10±1 sec.

Temp.:260±5°C

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 x15	336X336X40	380X335X366