

3.0A ABS/LBF

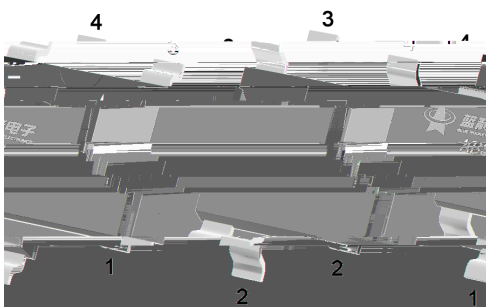
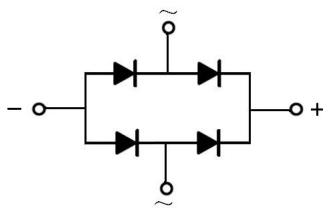
3.0A Surface Mount Schottky Bridge Rectifier, ABS/LBF thin package.

40V~200V

3.0A

Reverse Voltage: 40 to 200V, Forward Current: 3.0A, High Surge Current Capability, Designed for Surface Mount Application, HF product.

General purpose.



Parameter	Symbol	Rating					Unit
		TB34S	TB36S	TB38S	TB310S	TB320S	
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	40	60	80	100	200	V
Maximum RMS Voltage	V _{RMS}	28	42	56	80	160	V
Maximum DC Blocking Voltage	V _{DC}	40	60	80	100	200	V
Average Rectified Output Current at T _C = 100℃	I _{F(AV)}	3.0					A
Peak Forward Surge Current,8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	I _{FSM}	80		70			A
Typical Junction Capacitance ^(Note1)	C _j	250	160				pF
Typical Thermal Resistance ^(Note2)	R _{JA}	60					/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 Conditions	Rating					Unit
			TB34S	TB36S	TB38S	TB310S	TB320S	
Forward Voltage per element	V _F	I _F =3.0A	0.55	0.70	0.85		0.95	V
Maximum DC Reverse Current at Maximum DC Blocking Voltage	I _R	T _a =25℃	0.5	0.3				mA
		T _a =100℃	10	5				mA

Fig.1 Forward Current Derating Curve

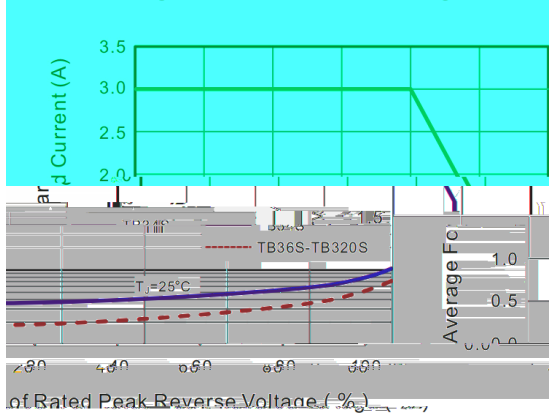


Fig.2 Typical Reverse Characteristics

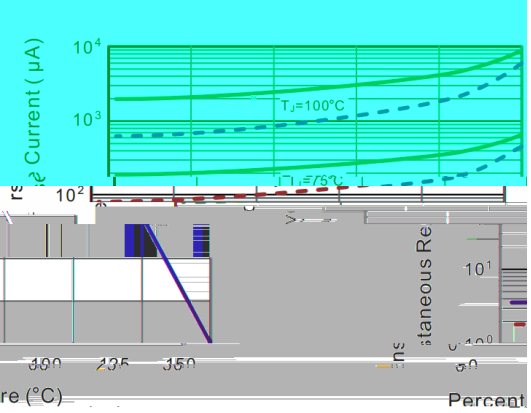


Fig.3 Typical Forward Characteristic

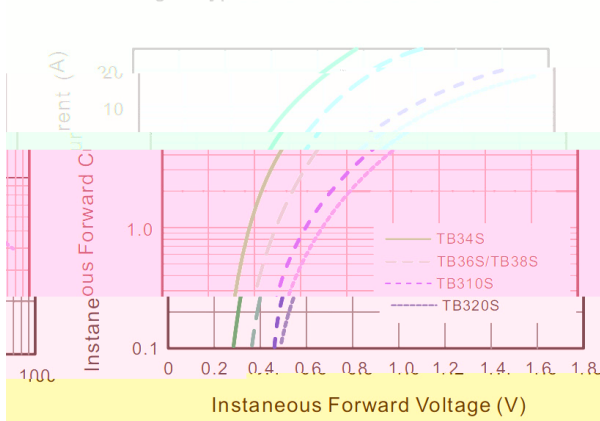


Fig.4 Typical Junction Capacitance

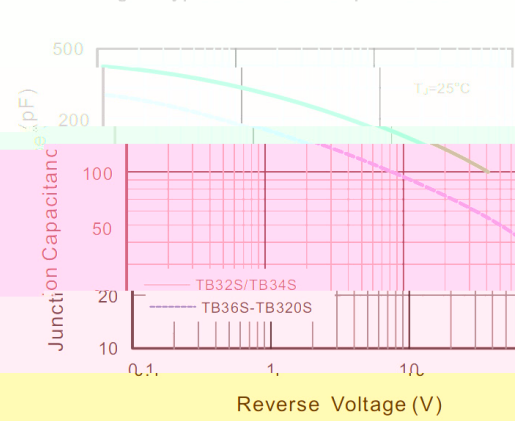
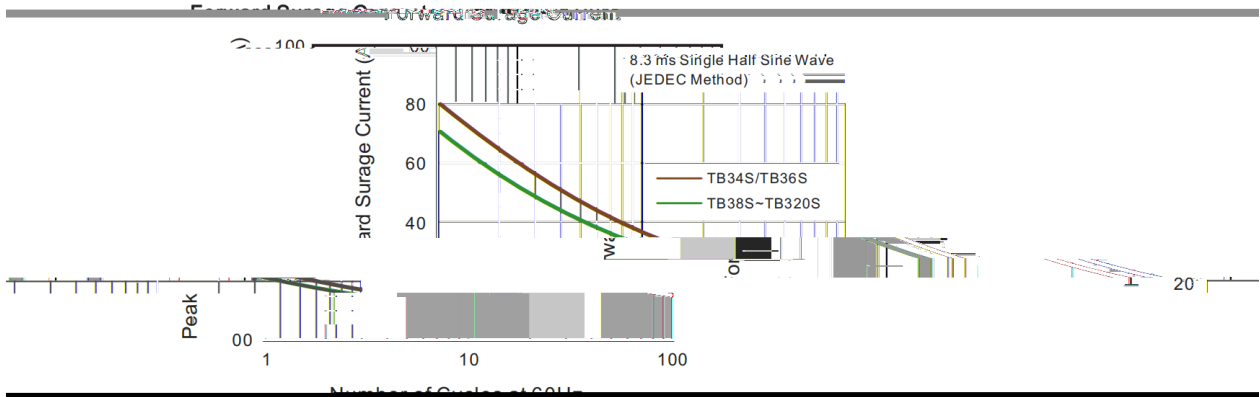
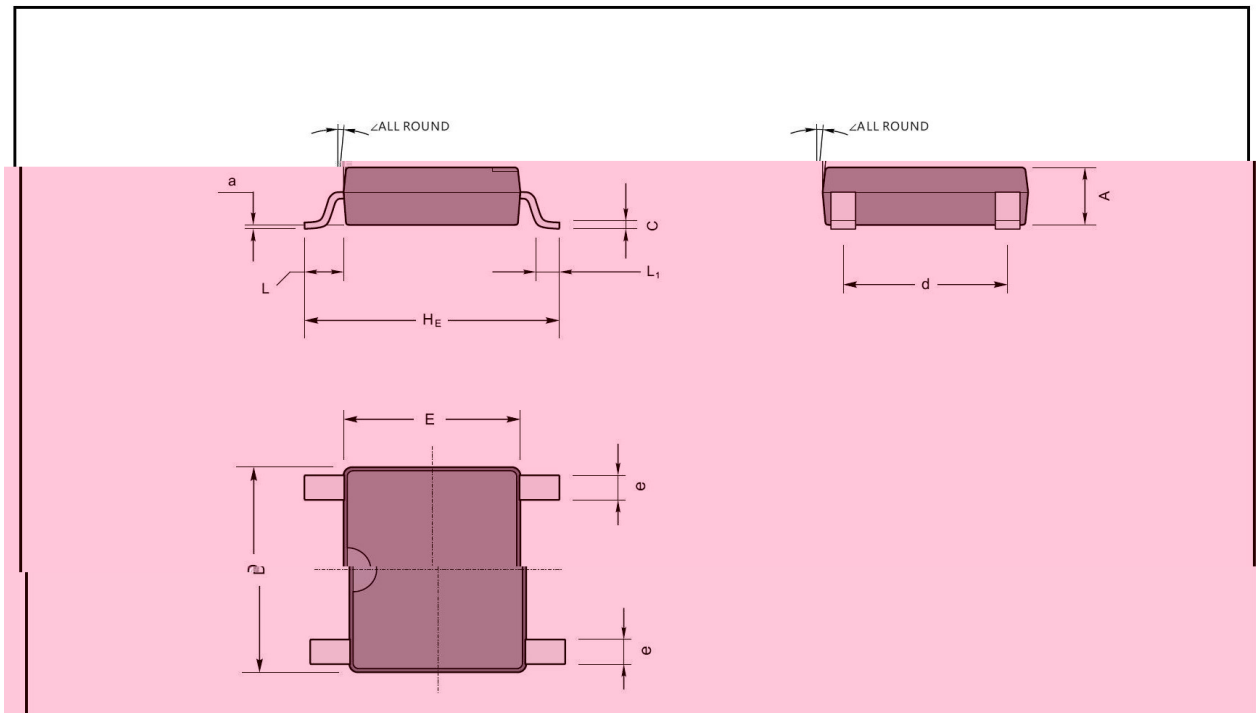


Fig.5 Maximum Non-Repetitive Peak

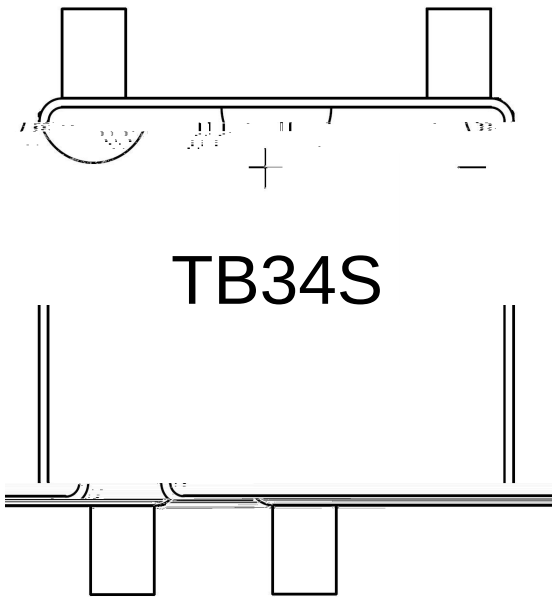


ABS/LBF



ABS/LBF mechanical data

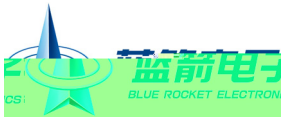
UNIT	A	C	D	E	HE	d	e	L	L1	a	Z



Note:

Product Type

Type number	Marking code
TB34S	TB34S
TB36S	TB36S
TB38S	TB38S
TB310S	TB310S
TB320S	TB320S



Temperature Profile for IR Reflow Soldering(Pb-Free)

- 1

150 180

60 90sec;
- 2

245 5

5 0.5sec;
- 3

2 10

/sec.
- Note:

1.Preheating:150~180 , 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)
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