

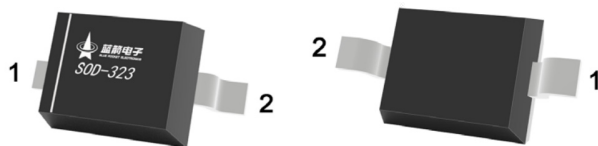
Rev.A Sep.-2024

## SOD-323

Schottky Barrier Rectifiers in a SOD-323 Plastic Package.

High current rectifier Schottky diodes, Low voltage, low inductance, HF Product.

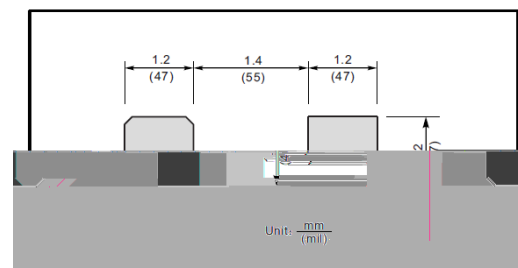
General purpose.



PIN1:Cathode

PIN2:Anode

The recommended mounting pad size



| Type   | number |
|--------|--------|
| BAT60B | HW5    |

|  | Symbol         | Rating     | Unit |
|--|----------------|------------|------|
|  | $V_{RRM}$      | 10         | V    |
|  | $I_F$          | 3          | A    |
|  | $I_{FSM}$      | 20         | A    |
|  | $P_D$          | 350        | mW   |
|  | $T_J, T_{stg}$ | -55 ~ +150 |      |

| Test Conditions | Rating | Unit |
|-----------------|--------|------|
| $I_F=10mA$      | 0.30   | V    |
| $I_F=100mA$     | 0.38   |      |
| $I_F=500mA$     | 0.50   |      |
| $I_F=1000mA$    | 0.60   |      |

Fig.1 Power Derating Curve

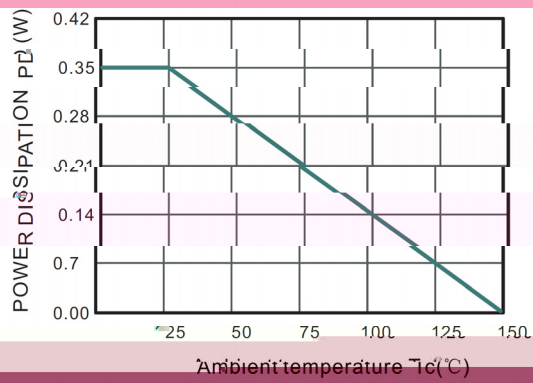


Fig.2 Typical Reverse Characteristics

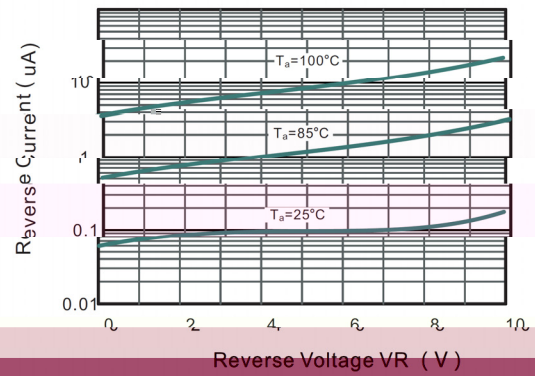


Fig.3 Typical Junction Capacitance

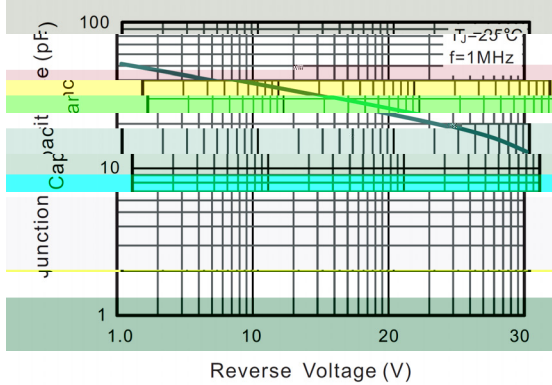


Fig.4 Typical Forward Characteristic

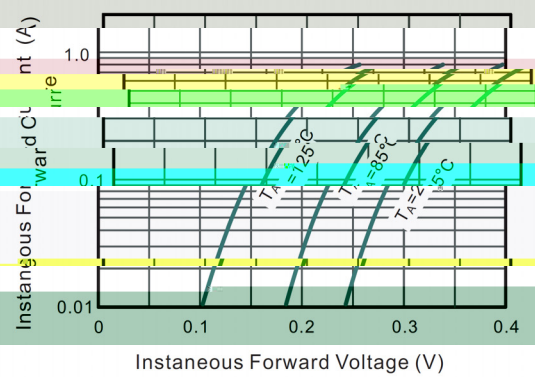
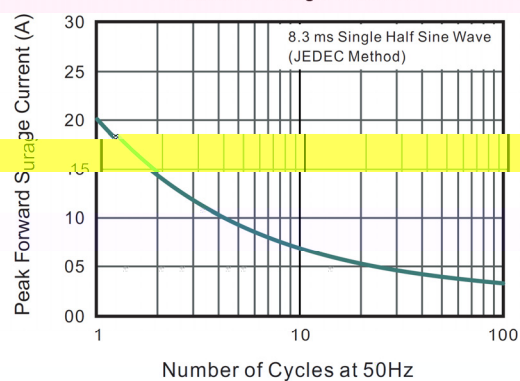
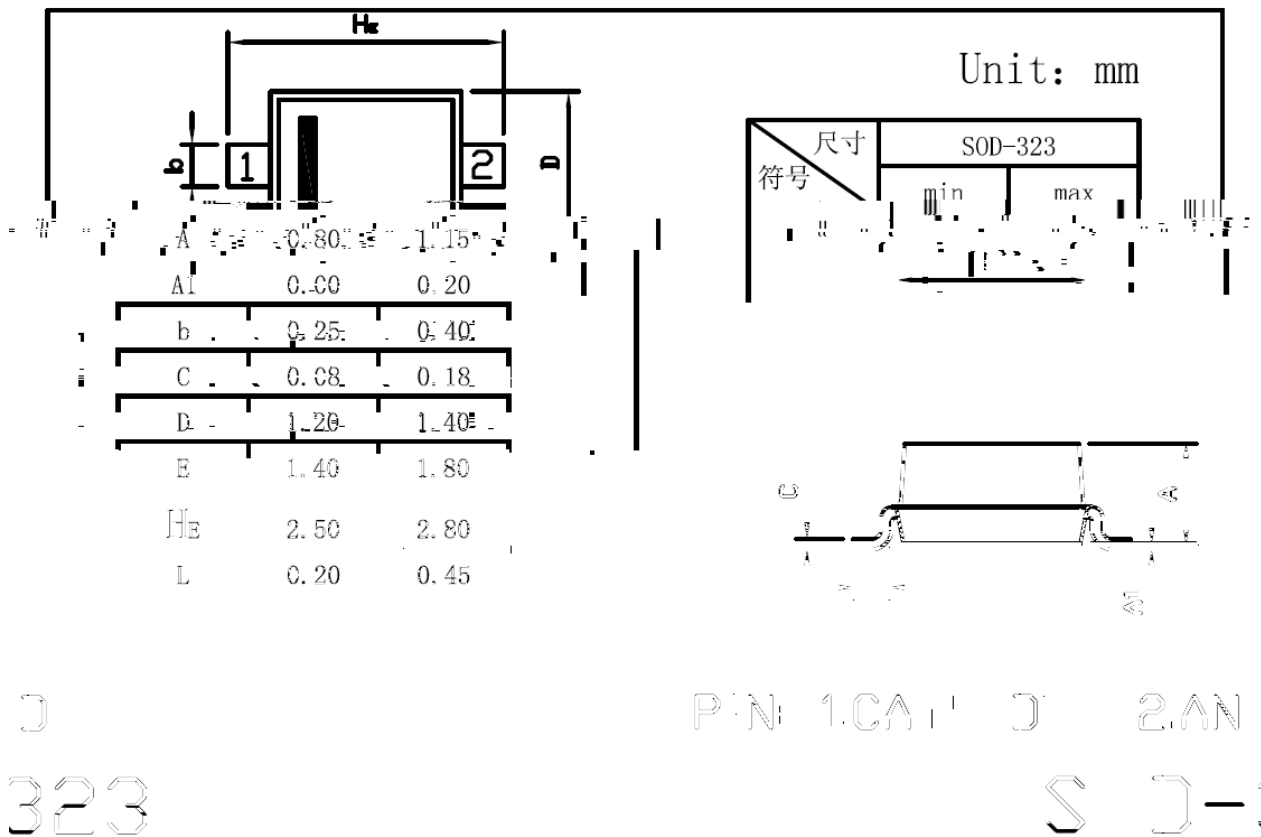


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current







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