

HSB88AS

Silicon Schottky Barrier Diode for High Speed Switching

REJ03G0586-0100 (Previous: ADE-208-964)

Rev.1.00

Mar 31, 2005

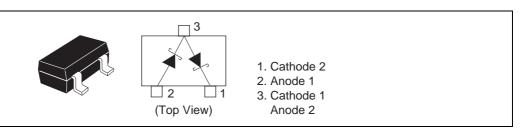
Features

- Low reverse current, Low capacitance.
- CMPAK package is suitable for high density surface mounting and high speed assembly.

Ordering Information

| Type No. | Laser Mark | Package Name | Package Code (Previous Code) |
|----------|------------|--------------|---------------------------------|
| HSB88AS | C1 | CMPAK | PTSP0003ZB-A |
| | | | (CMPAK) |

Pin Arrangement



Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

| Item | Symbol | Value | Unit |
|---------------------------|--------|-------------|------|
| Reverse voltage | V_R | 10 | V |
| Average rectified current | lo *1 | 15 | mA |
| Junction temperature | Tj | 125 | °C |
| Storage temperature | Tstg | -55 to +125 | °C |

Note: 1. Per one device.

Electrical Characteristics *1

 $(Ta = 25^{\circ}C)$

| Item | Symbol | Min | Тур | Max | Unit | Test Condition |
|---------------------------|-----------------|-------|-----|-------|------|---|
| Forward voltage | V_{F1} | 0.350 | _ | 0.420 | V | I _F = 1 mA |
| | V _{F2} | 0.500 | _ | 0.580 | | I _F = 10 mA |
| Reverse current | I _{R1} | _ | | 0.2 | μΑ | V _R = 2 V |
| | I _{R2} | | | 10 | | V _R = 10 V |
| Capacitance | С | | 1 | 0.80 | pF | V _R = 0 V, f = 1 MHz |
| Capacitance deviation | ΔC | | | 0.10 | pF | V _R = 0 V, f = 1 MHz |
| Forward voltage deviation | ΔV_{F} | _ | _ | 10 | mV | I _F = 10 mA |
| ESD-Capabilityme *2 | _ | 30 | _ | _ | V | C = 200 pF, R = 0 Ω , Both forward |
| | | | | | | and reverse direction 1 pulse. |

Notes: 1. Per one device.

2. Failure criterion ; $I_R > 0.4~\mu A$ at $V_R = 2V$

Main Characteristic

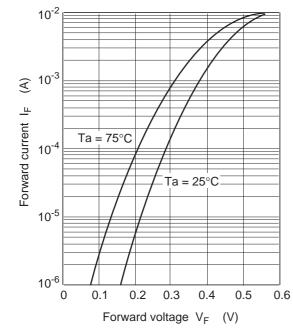


Fig.1 Forward current vs. Forward voltage

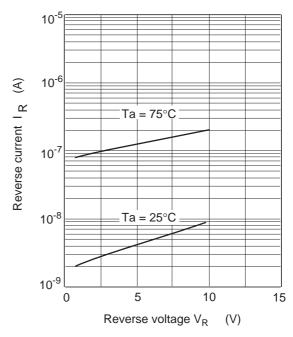
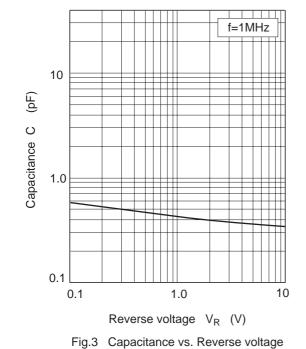
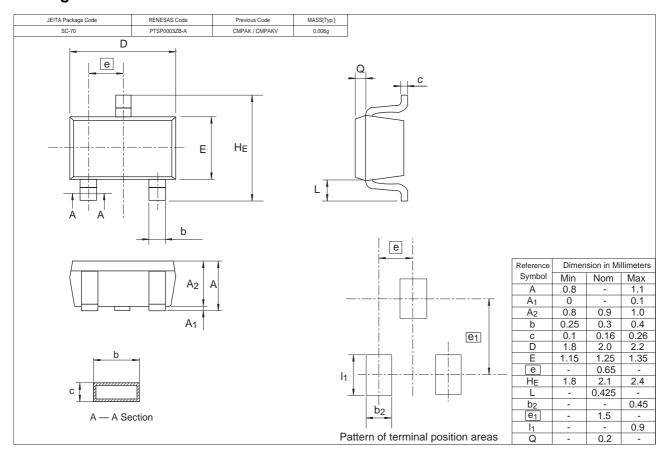


Fig.2 Reverse current vs. Reverse voltage



Package Dimensions



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- (ii) use of nontrammaple material of (iii) prevention against any maintention or misnap.

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