



Silicon Schottky Barrier Diode for High Speed Switching



ADE-208-932A (Z)

Rev. 1 Sep. 2000

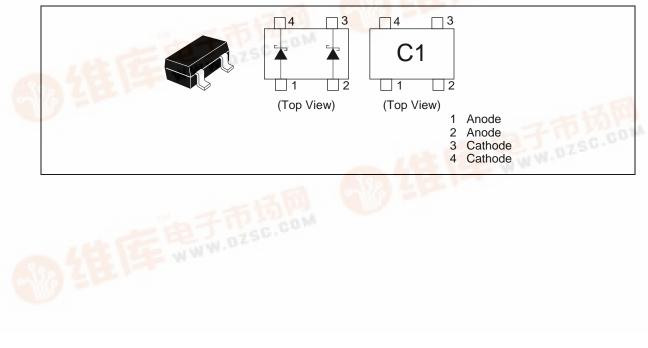
### Features

- Low reverse current, Low capacitance.
- CMPAK-4 Package is suitable for high density surface mounting and high speed assembly.

## **Ordering Information**

Type No.	Laser Mark	Package Code
HSB88YP	C1	CMPAK-4

## **Pin Arrangement**





## **Absolute Maximum Ratings**

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

Item	Symbol	Value	Unit
Reverse voltage	V <sub>R</sub>	10	V
Average rectified current	l <sub>o</sub> *	15	mA
Junction temperature	Tj	125	°C
Storage temperature	Tstg	–55 to +125	°C

Note: Per one device.

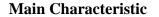
# **Electrical Characteristics** \*<sup>1</sup>

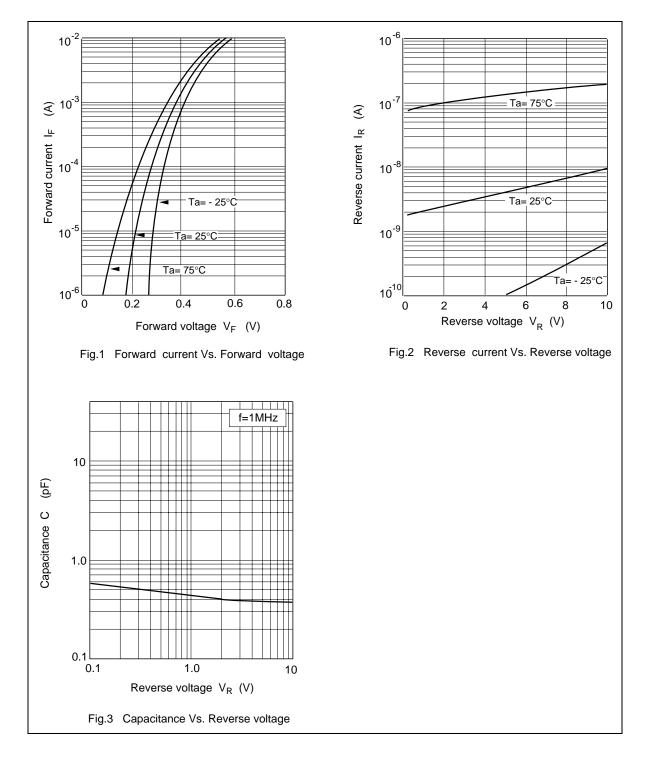
 $(Ta = 25^{\circ}C)$ 

Item	Symbol	Min	Тур	Max	Unit	Test Condition
Forward voltage	$V_{_{F1}}$	0.350	) —	0.420	V	I <sub>F</sub> = 1 mA
	$V_{\rm F2}$	0.500	) —	0.580	)	I <sub>F</sub> = 10 mA
Reverse current	I <sub>R1</sub>		_	0.2	μA	$V_{R} = 2 V$
	I <sub>R2</sub>		_	10	_	V <sub>R</sub> = 10 V
Capacitance	С		_	0.80	pF	$V_{R} = 0 V, f = 1 MHz$
Capacitance deviation	$\Delta C$		_	0.10	pF	$V_{R} = 0 V, f = 1 MHz$
Forward voltage deviation	$\Delta V_{\rm F}$		_	10	mV	I <sub>F</sub> = 10 mA
ESD-Capability *2		30		_	V	C = 200 pF, R = 0 $\Omega$ , Both forward and reverse direction 1 pulse.

Notes: 1. Per one device.

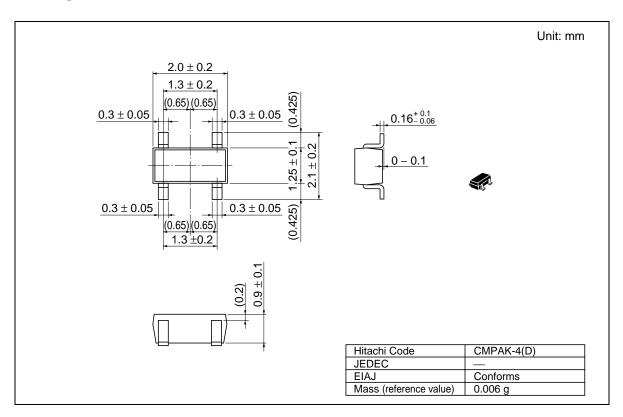
2. Failure criterion ;  $I_{_R}$  > 0.4  $\mu A$  at  $V_{_R}$  = 2 V







## **Package Dimensions**





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