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Renesas Technology Corp.
Customer Support Dept.
April 1, 2003

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Keep safety first in your circuit designs!

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Remember to give due consideration to safety when making your circuit designs, with appropriate measures such as (i) placement of substitutive, auxiliary circuits, (ii) use of nonflammable material or (iii) prevention against any malfunction or mishap.

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HSB0104YP

Silicon Schottky Barrier Diode for High Speed Switching



ADE-208-730A (Z)

Rev. 1
Sep. 2000

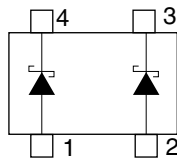
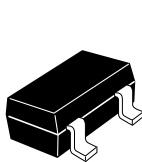
Features

- Can be used for protection of signal-bus lines.
- The mounting efficiency has been improved by incorporating two low-loss diode element into a CMPAK-4 package.

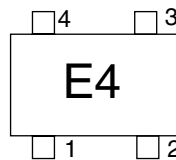
Ordering Information

Type No.	Laser Mark	Package Code
HSB0104YP	E4	CMPAK-4

Pin Arrangement



(Top View)



(Top View)

- 1 Anode
- 2 Anode
- 3 Cathode
- 4 Cathode

Absolute Maximum Ratings ^{*1}

(Ta = 25°C)

Item	Symbol	Value	Unit
Reverse peak reverse voltage	V_{RRM}	40	V
Forward current	I_F	100	mA
Non-Repetitive peak forward surge current	I_{FSM}^{*2}	3	A
Junction temperature	Tj	125	°C
Storage temperature	Tstg	-55 to +125	°C

Notes: 1. Per one device.

2. 10ms sine wave 1 pulse.

Electrical Characteristics

(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test Condition
Forward voltage	V_F	—	—	0.58	V	$I_F = 100 \text{ mA}$
Reverse current	I_R	—	—	50	μA	$V_R = 40 \text{ V}$
Capacitance	C	—	20	—	pF	$V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$

Main Characteristic

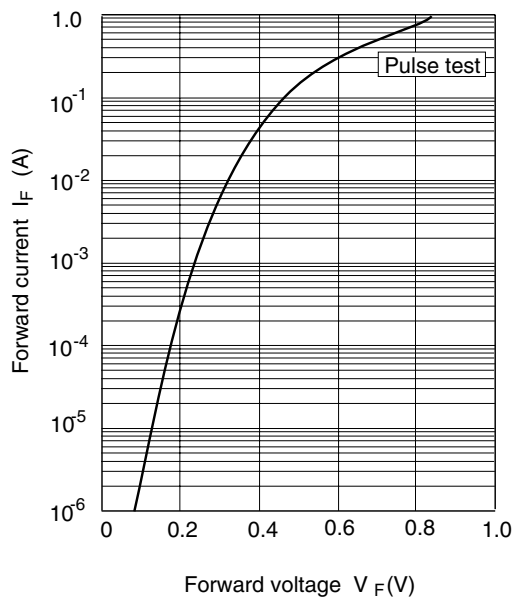


Fig.1 Forward current Vs. Forward voltage

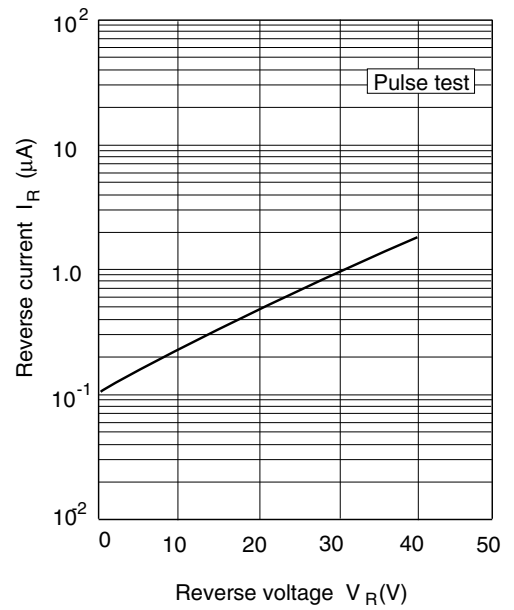


Fig.2 Reverse current Vs. Reverse voltage

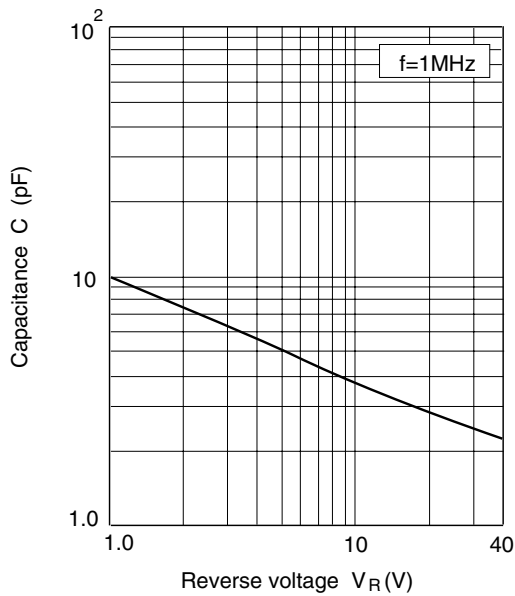
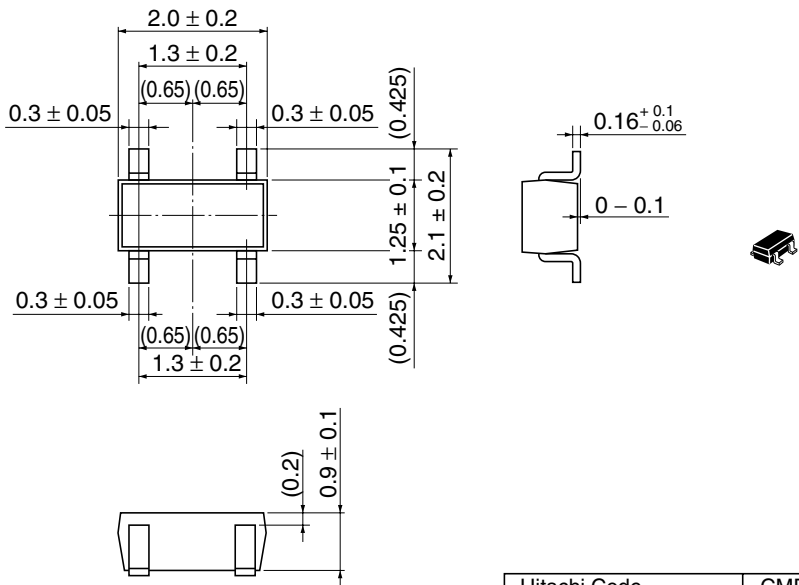


Fig.3 Capacitance Vs. Reverse voltage

Package Dimensions

Unit: mm



Hitachi Code	CMPAK-4(D)
JEDEC	—
EIAJ	Conforms
Mass (reference value)	0.006 g

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