HSB0104YP

Silicon Schottky Barrier Diode for High Speed Switching

REJ03G0597-0200
(Previous: ADE-208-730A)
Rev.2.00
Apr 12, 2005

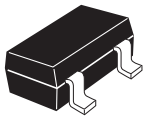
Features

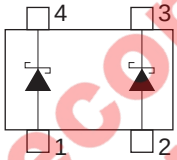
- Can be used for protection of signal-bus lines.
- The mounting efficiency has been improved by incorporating two low-loss diode element into a CMPAK-4 package.

Ordering Information

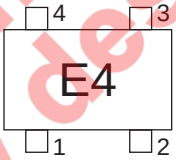
Type No.	Laser Mark	Package Name	Package Code (Previous Code)
HSB0104YP	E4	CMPAK-4	PTSP0004ZB-A (CMPAK-4)

Pin Arrangement





(Top View)



(Top View)

1. Anode
2. Anode
3. Cathode
4. Cathode

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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 = 100mA
Reverse current	I_R	—	—	50	μA	V_R = 40V
Capacitance	C	—	20	—	pF	V_R = 0 V, f = 1 MHz

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Main Characteristic

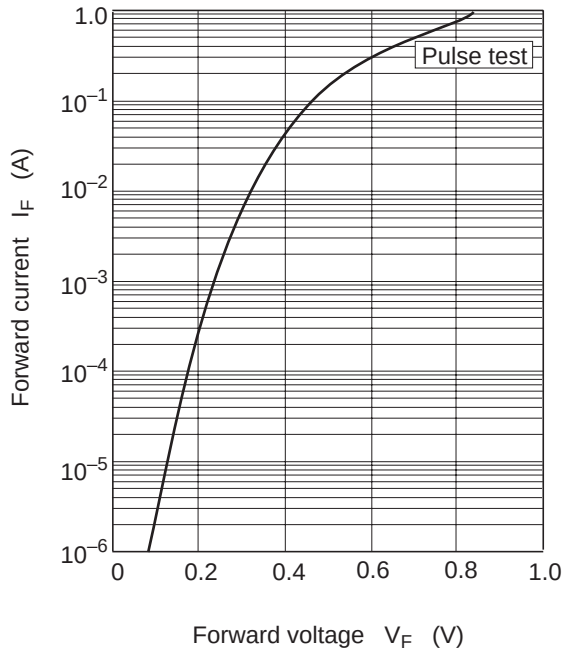


Fig.1 Forward current vs. Forward voltage

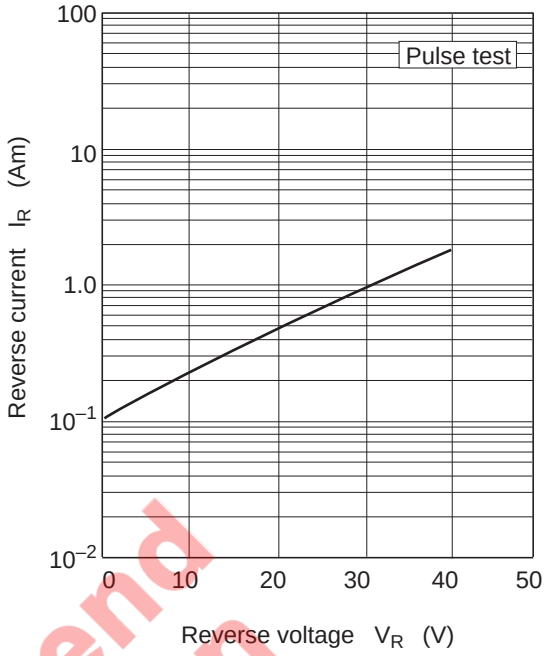


Fig.2 Reverse current vs. Reverse voltage

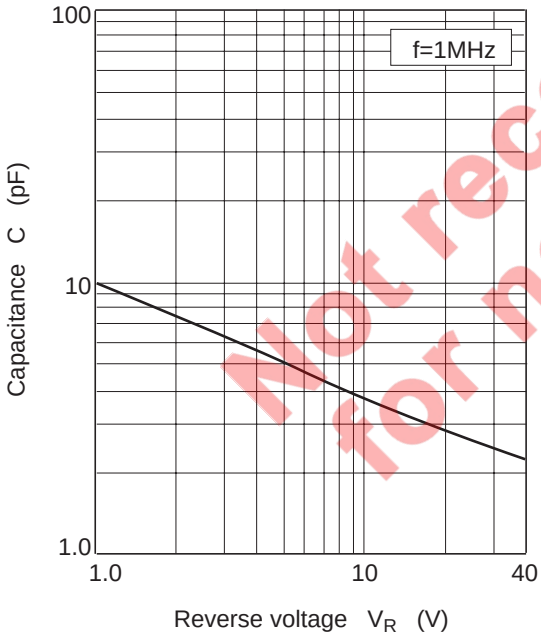


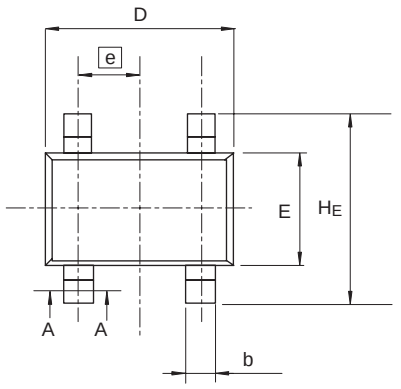
Fig.3 Capacitance vs. Reverse voltage

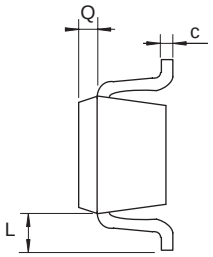
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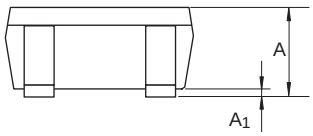
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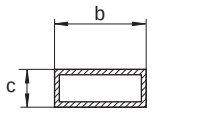
Package Dimensions

JEITA Package Code	RENESAS Code	Previous Code	MASS[Typ.]
SC-82	PTSP0004ZB-A	CMPAK-4(D) / CMPAK-4(D)V	0.006g

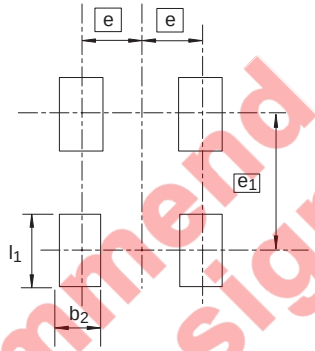








A — A Section



Pattern of terminal position areas

Reference Symbol	Dimension in Millimeters		
	Min	Nom	Max
A	0.8	0.9	1.0
A_1	0	-	0.1
b	0.25	0.3	0.35
c	0.1	0.16	0.26
D	1.8	2.0	2.2
E	1.15	1.25	1.35
e	-	0.65	-
H_E	1.9	2.1	2.3
L	-	0.425	-
b_2	-	-	0.45
e_1	-	1.5	-
l_1	-	-	0.9
Q	-	0.2	-

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Renesas Technology Singapore Pte. Ltd.
1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632
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