

2SC4964

Silicon NPN Epitaxial

REJ03G0736-0300
(Previous ADE-208-005A)
Rev.3.00
Aug.10.2005

Application

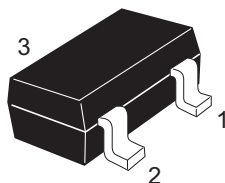
VHF / UHF RF switch

Features

- Low R_{on} and high performance for RF switch.
- Capable of high density mounting.

Outline

RENESAS Package code: PLSP0003ZB-A
(Package name: MPAK)



1. Emitter
2. Base
3. Collector

Note: Marking is "YV-".

Absolute Maximum Ratings

($T_a = 25^\circ\text{C}$)

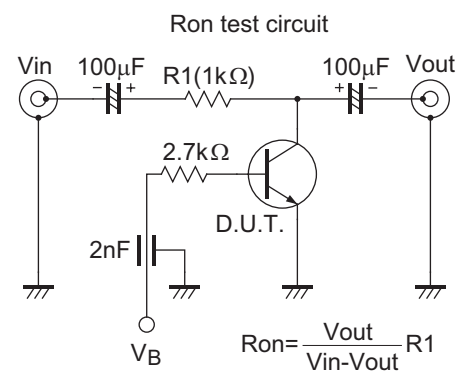
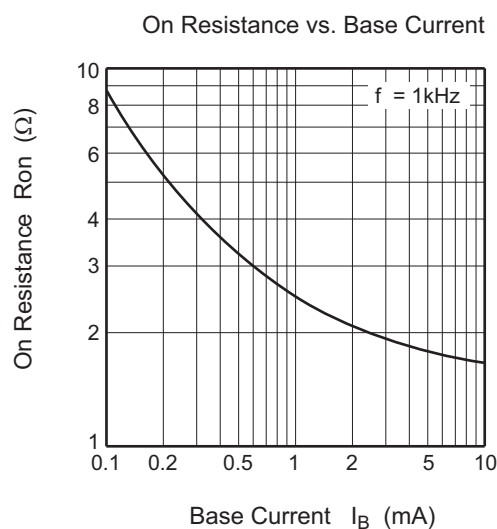
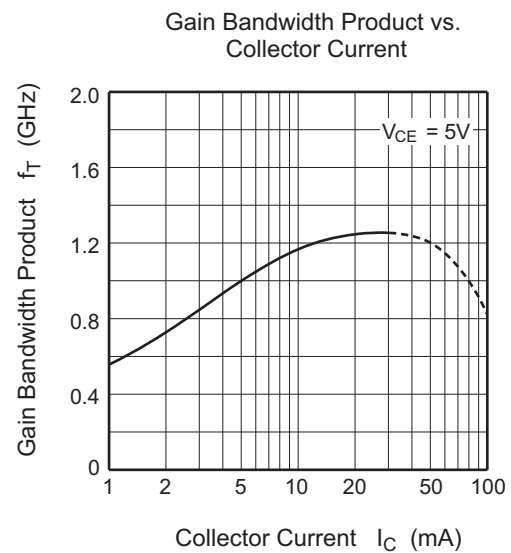
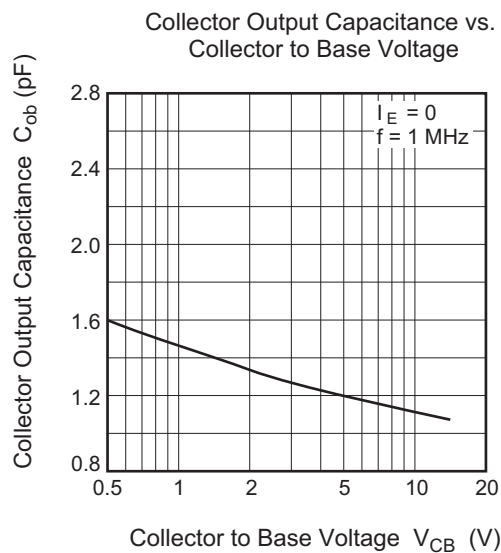
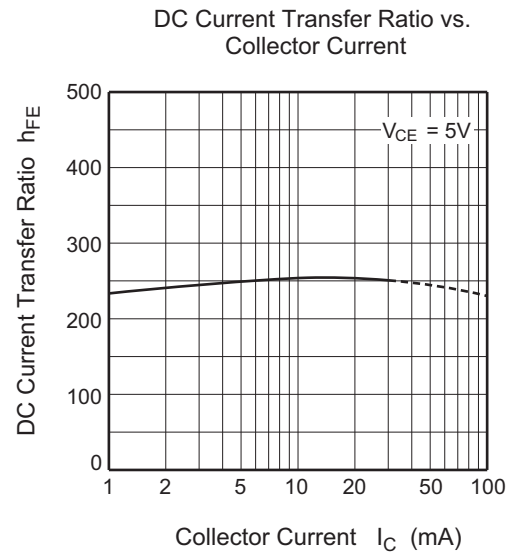
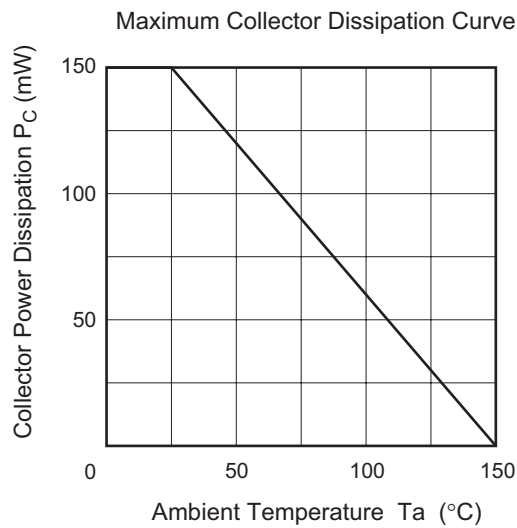
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	12	V
Collector to emitter voltage	V_{CEO}	8	V
Emitter to base voltage	V_{EBO}	3	V
Collector current	I_C	100	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$

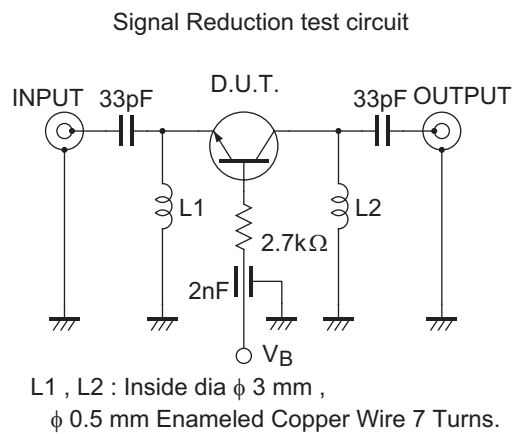
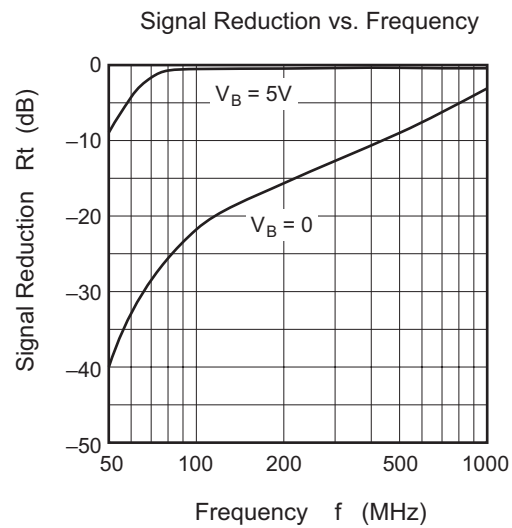
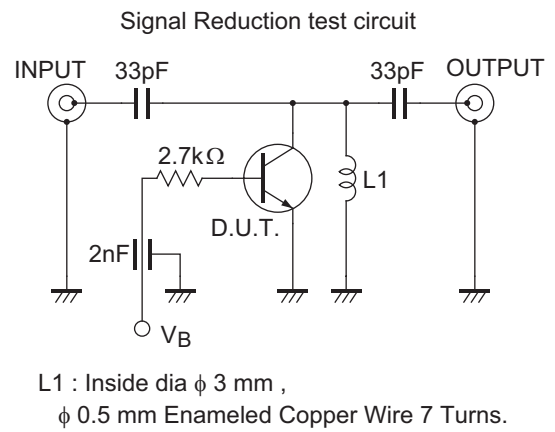
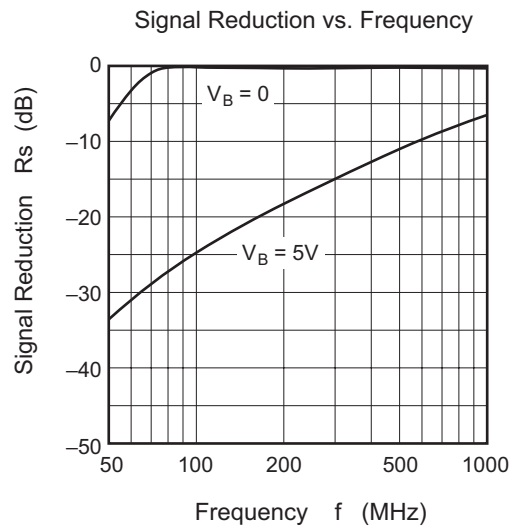
Electrical Characteristics

(Ta = 25°C)

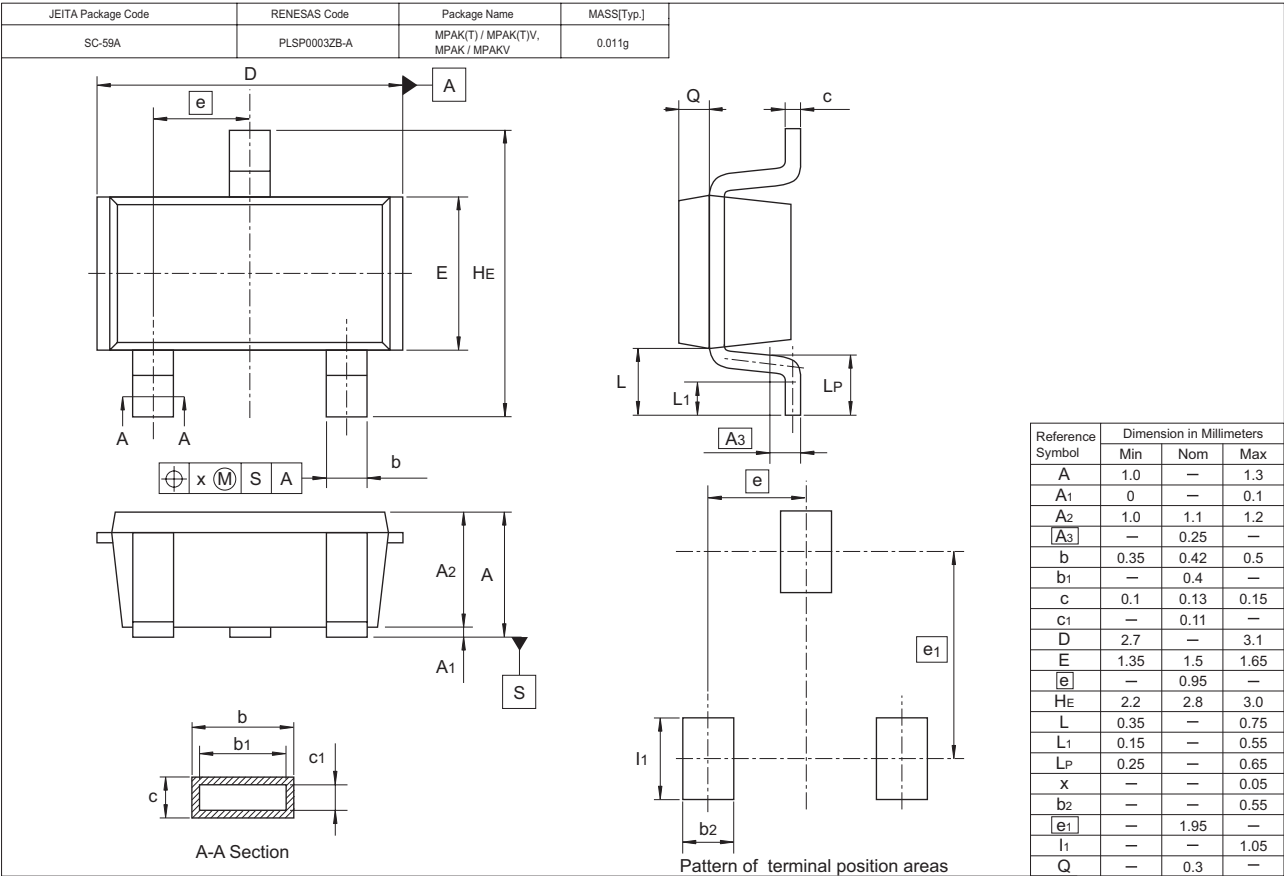
Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	12	—	—	V	$I_C = 10\ \mu A, I_E = 0$
Collector cutoff current	I_{CBO}	—	—	1	μA	$V_{CB} = 10\ V, I_E = 0$
	I_{CEO}	—	—	1	mA	$V_{CE} = 8\ V, R_{BE} = \infty$
Emitter cutoff current	I_{EBO}	—	—	10	μA	$V_{EB} = 3\ V, I_C = 0$
DC current transfer ratio	h_{FE}	100	250	600		$V_{CE} = 5\ V, I_C = 5\ mA$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	200	300	mV	$I_C = 80\ mA, I_B = 5\ mA$
Collector output capacitance	C_{ob}	—	1.2	1.6	pF	$V_{CB} = 5\ V, I_E = 0, f = 1\ MHz$
On resistance	R_{on}	—	2.0	—	Ω	$I_B = 2.5\ mA, f = 1\ kHz$

Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC4964YV-TL-E	3000	φ 178 mm Reel, 8 mm Emboss Taping

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.

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450 Holger Way, San Jose, CA 95134-1368, U.S.A
Tel: <1> (408) 382-7500, Fax: <1> (408) 382-7501

Renesas Technology Europe Limited

Dukes Meadow, Millboard Road, Bourne End, Buckinghamshire, SL8 5FH, U.K.
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Renesas Technology Hong Kong Ltd.

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Renesas Technology Taiwan Co., Ltd.

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Tel: <886> (2) 2715-2888, Fax: <886> (2) 2713-2999

Renesas Technology (Shanghai) Co., Ltd.

Unit2607 Ruijing Building, No.205 Maoming Road (S), Shanghai 200020, China
Tel: <86> (21) 6472-1001, Fax: <86> (21) 6415-2952

Renesas Technology Singapore Pte. Ltd.

1 Harbour Front Avenue, #06-10, Keppel Bay Tower, Singapore 098632
Tel: <65> 6213-0200, Fax: <65> 6278-8001

Renesas Technology Korea Co., Ltd.

Kukje Center Bldg. 18th Fl., 191, 2-ka, Hangang-ro, Yongsan-ku, Seoul 140-702, Korea
Tel: <82> 2-796-3115, Fax: <82> 2-796-2145

Renesas Technology Malaysia Sdn. Bhd.

Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia
Tel: <603> 7955-9390, Fax: <603> 7955-9510