

2SC4260

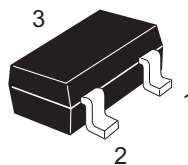
Silicon NPN Epitaxial

REJ03G0718-0300
(Previous ADE-208-1098A)
Rev.3.00
Aug.10.2005

Application

UHF frequency converter, Wide band amplifier

Outline

RENESAS Package code: PTSP0003ZA-A
(Package name: CMPAK[®])

1. Emitter
2. Base
3. Collector

Note: Marking is "TI-".

*CMPAK is a trademark of Renesas Technology Corp.

Absolute Maximum Ratings

(Ta = 25°C)

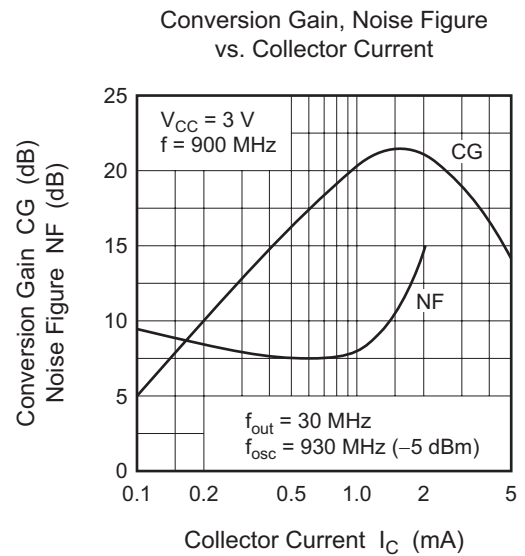
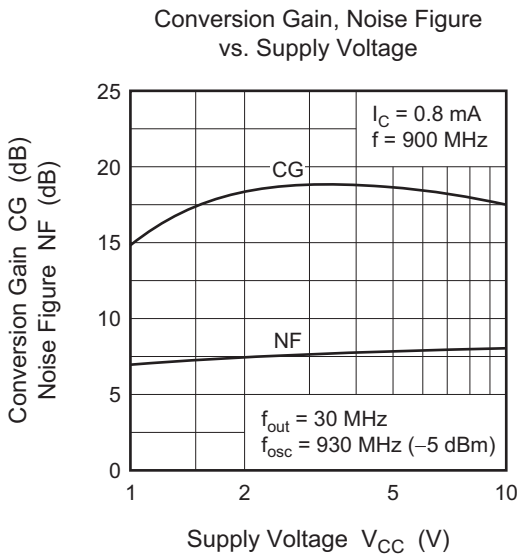
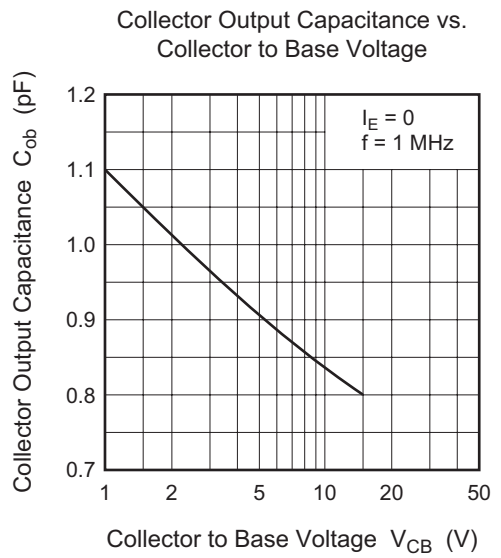
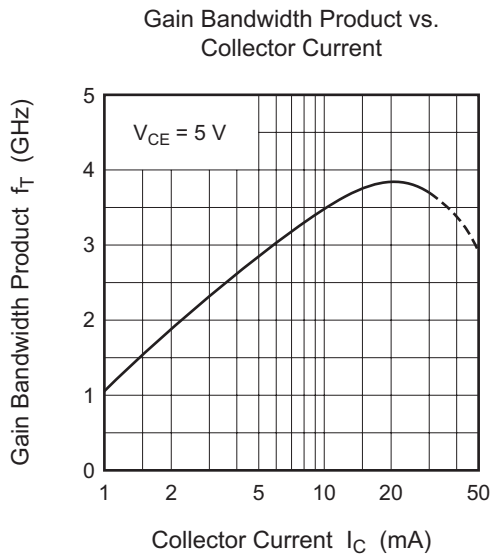
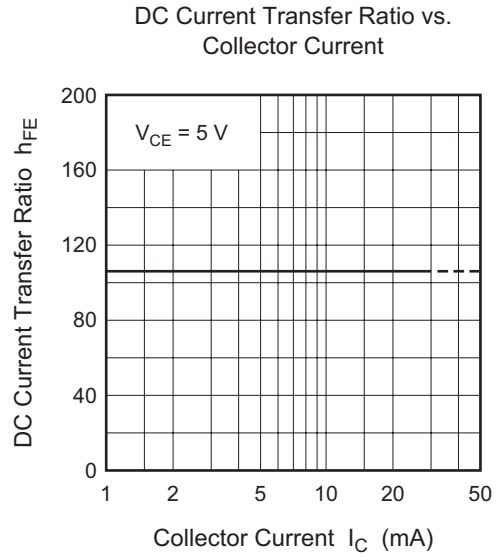
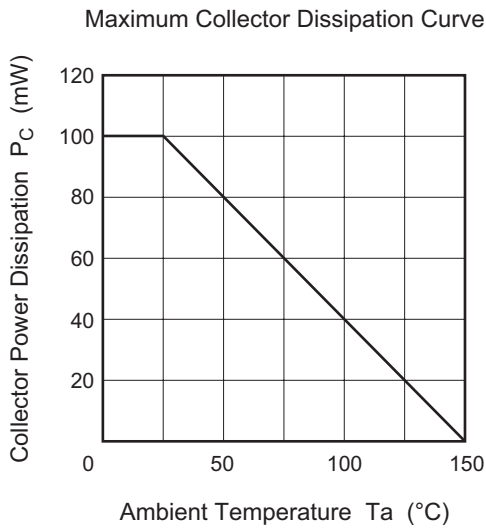
Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	25	V
Collector to emitter voltage	V _{CEO}	13	V
Emitter to base voltage	V _{EBO}	3	V
Collector current	I _C	50	mA
Collector power dissipation	P _C	100	mW
Junction temperature	T _J	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics

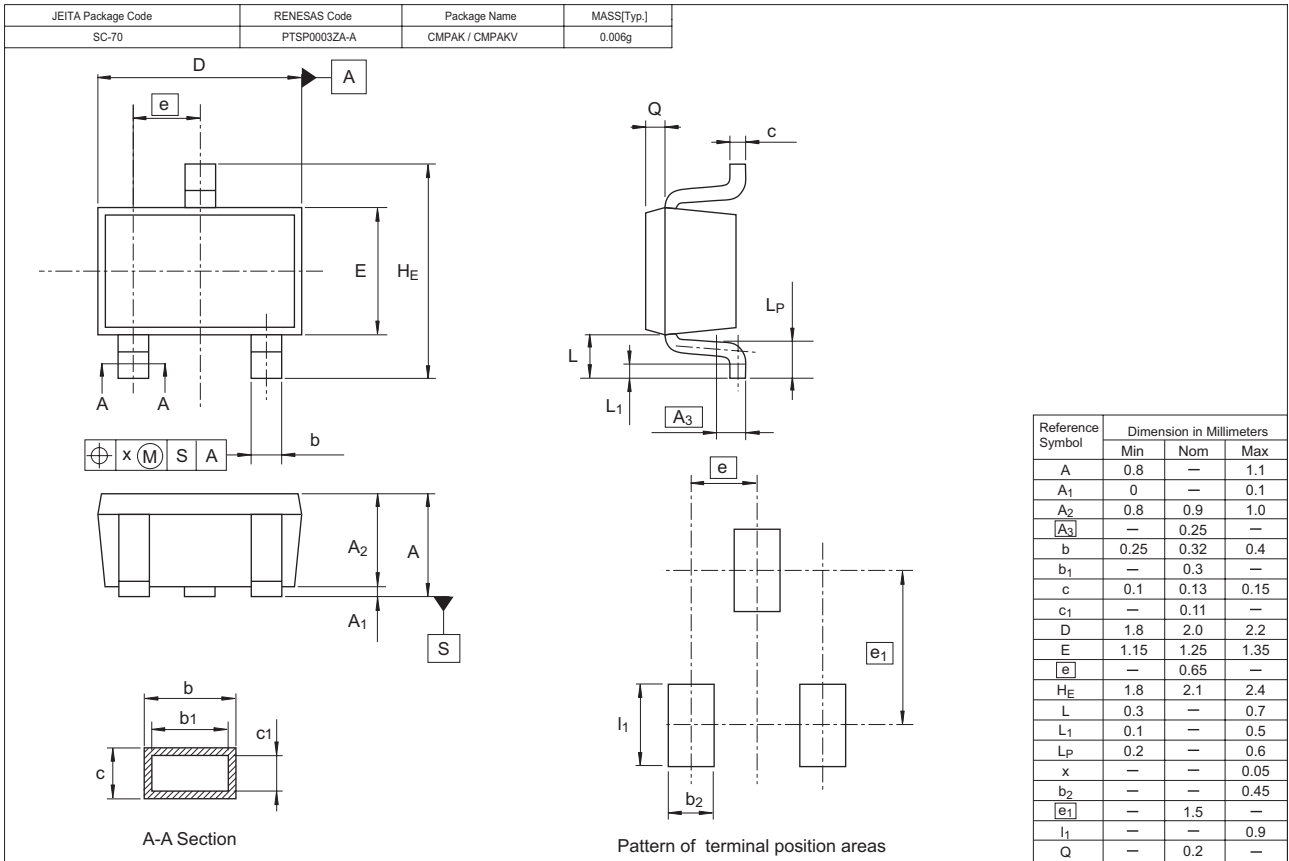
(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	25	—	—	V	$I_C = 10 \mu A, I_E = 0$
Collector cutoff current	I_{CBO}	—	—	0.1	μA	$V_{CB} = 15 V, I_E = 0$
	I_{CEO}	—	—	10	μA	$V_{CE} = 13 V, R_{BE} = \infty$
Emitter cutoff current	I_{EBO}	—	—	0.3	μA	$V_{EB} = 3 V, I_C = 0$
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	—	0.3	V	$I_C = 20 mA, I_B = 4 mA$
DC current transfer ratio	h_{FE}	50	—	180		$V_{CE} = 5 V, I_C = 5 mA$
Collector output capacitance	C_{ob}	—	0.85	1.3	pF	$V_{CB} = 10 V, I_E = 0, f = 1 MHz$
Gain bandwidth product	f_T	3.0	3.8	—	GHz	$V_{CE} = 5 V, I_C = 5 mA$
Conversion gain	CG	—	19	—	dB	$V_{CC} = 5 V, I_C = 0.8 mA,$ $f = 900 MHz$
Noise figure	NF	—	8	—	dB	$f_{OSC} = 930 MHz (-5dBm),$ $f_{out} = 30 MHz$

Main Characteristics



Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC4260TI-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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