

2SC4261

Silicon NPN Epitaxial

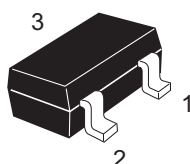
REJ03G0719-0300
(Previous ADE-208-1099A)
Rev.3.00
Aug.10.2005

Application

UHF Local oscillator

Outline

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



- 1. Emitter
- 2. Base
- 3. Collector

Note: Marking is "QI-".

*CMPAK is a trademark of Renesas Technology Corp.

Absolute Maximum Ratings

(Ta = 25°C)

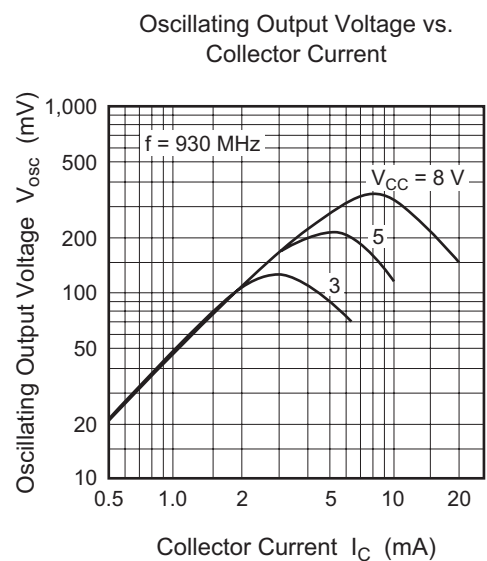
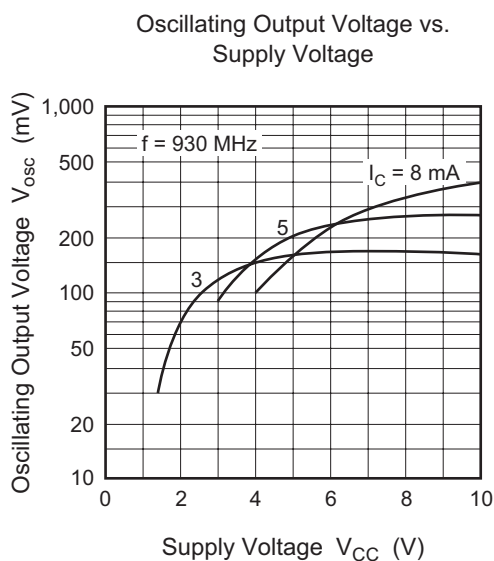
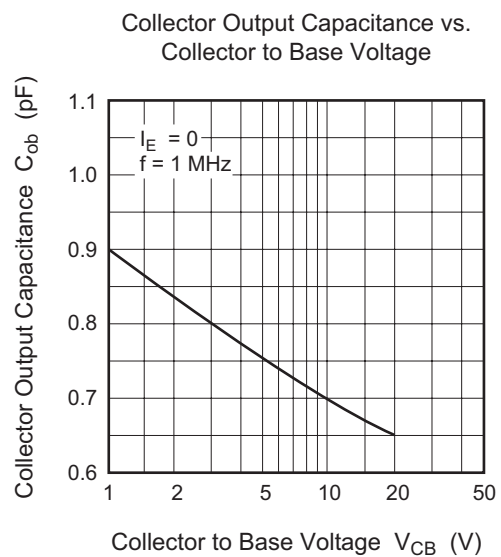
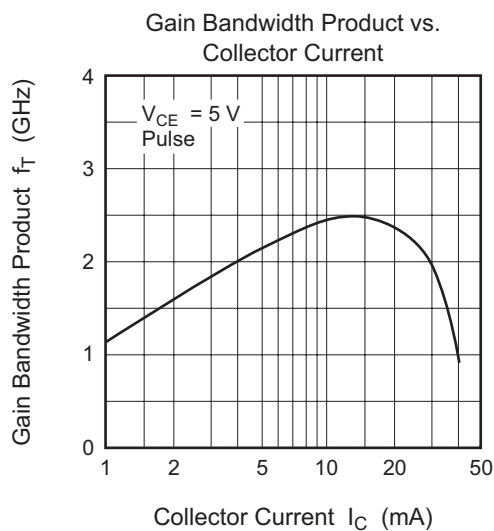
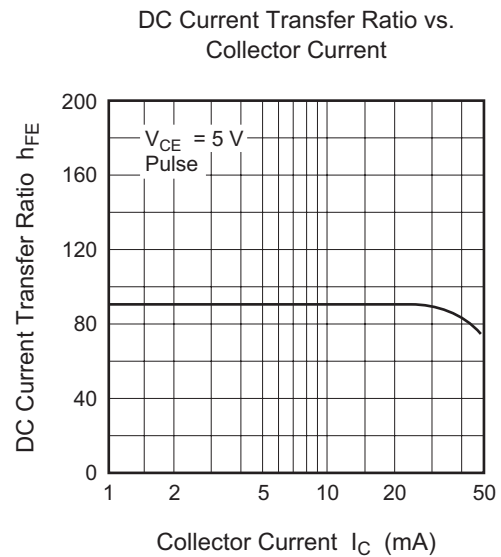
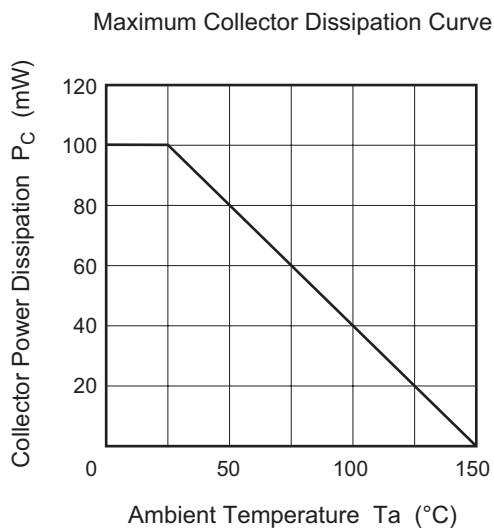
Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	25	V
Collector to emitter voltage	V_{CEO}	15	V
Emitter to base voltage	V_{EBO}	3	V
Collector current	I_C	50	mA
Collector power dissipation	P_C	100	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Electrical Characteristics

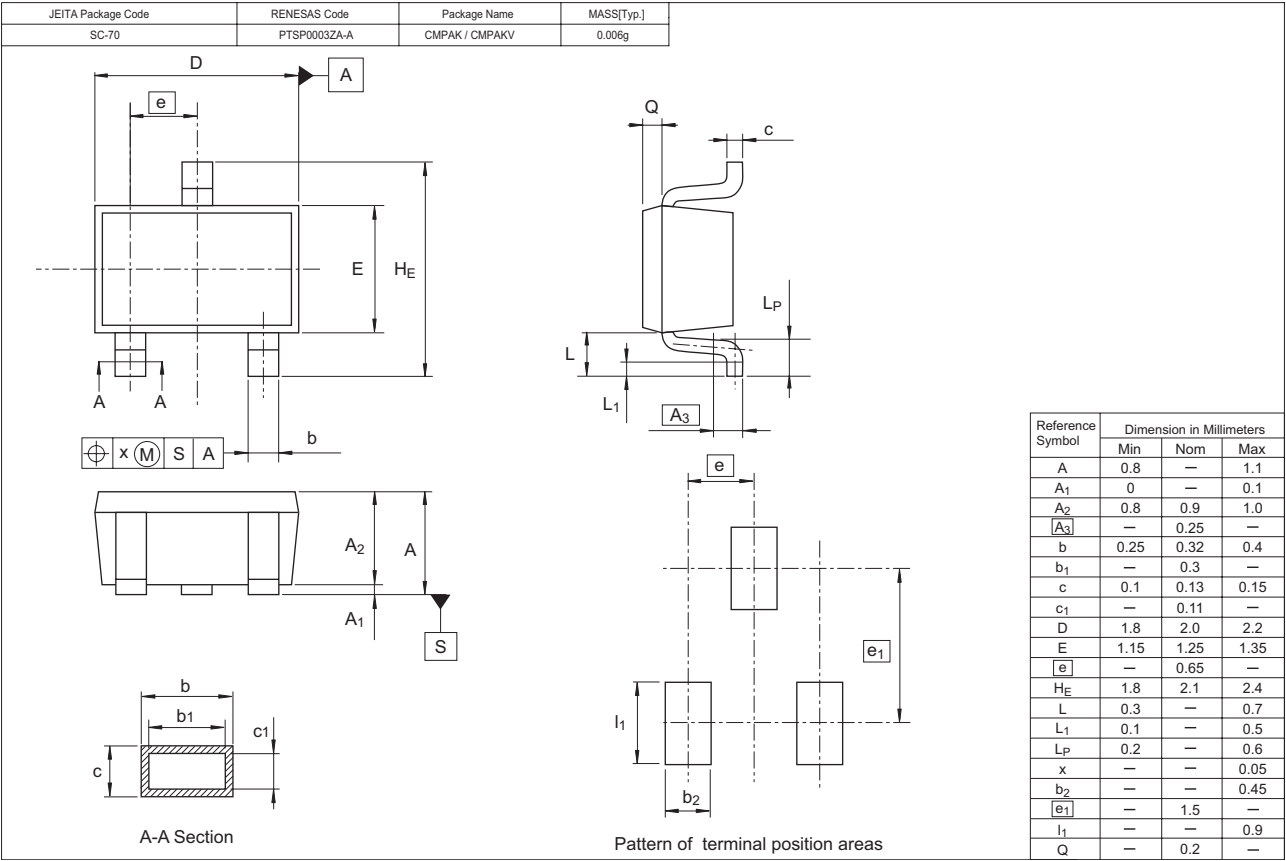
(Ta = 25°C)

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}	—	—	0.3	μA	$V_{CB} = 15\ V, I_E = 0$
	I_{CEO}	—	—	10	μA	$V_{CE} = 15\ V, R_{BE} = \infty$
Emitter cutoff current	I_{EBO}	—	—	1.0	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}	—	0.7	1.0	pF	$V_{CB} = 10\ V, I_E = 0, f = 1\ MHz$
Gain bandwidth product	f_T	1.8	2.4	—	GHz	$V_{CE} = 5\ V, I_C = 20\ mA$
Oscillating output voltage	V_{osc}	—	200	—	mV	$V_{CC} = 5\ V, I_C = 5\ mA, f = 930\ MHz$

Main Characteristics



Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC4261QI-TR-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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