

2SC4261

Silicon NPN Epitaxial

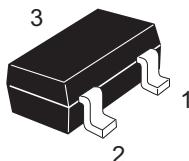
REJ03G0719-0300
(Previous ADE-208-1099A)
Rev.3.00
Aug.10.2005

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)

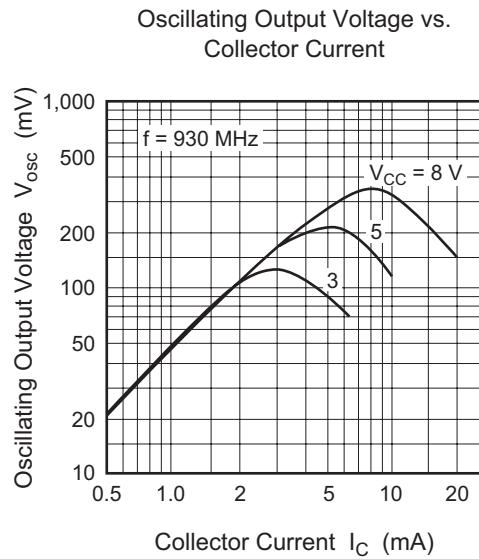
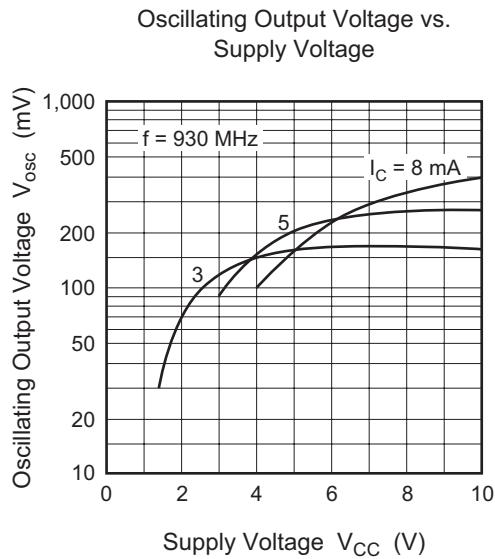
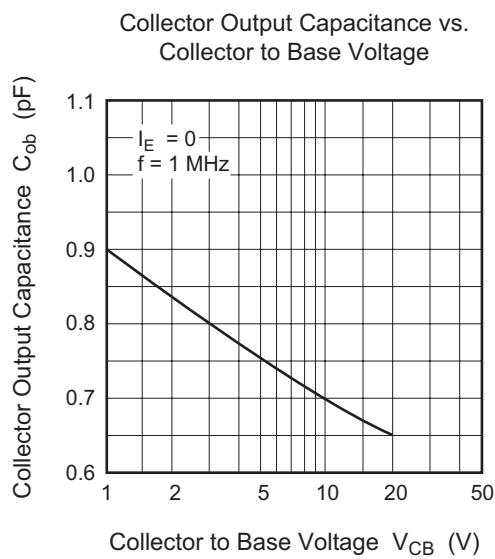
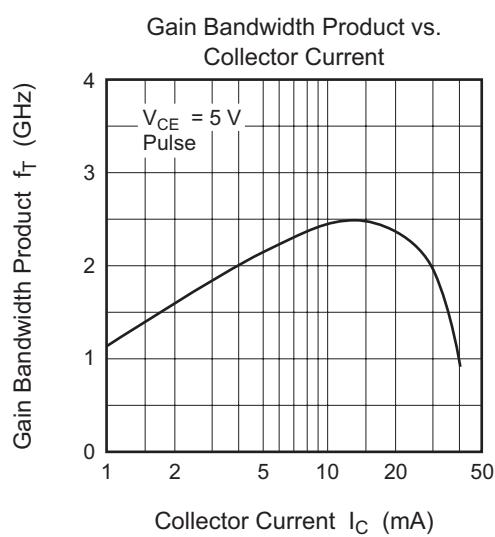
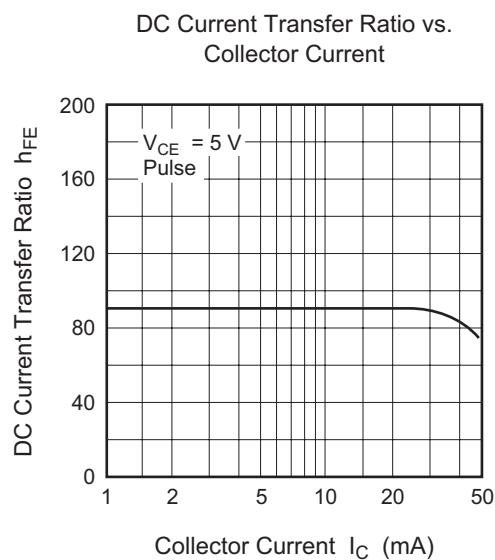
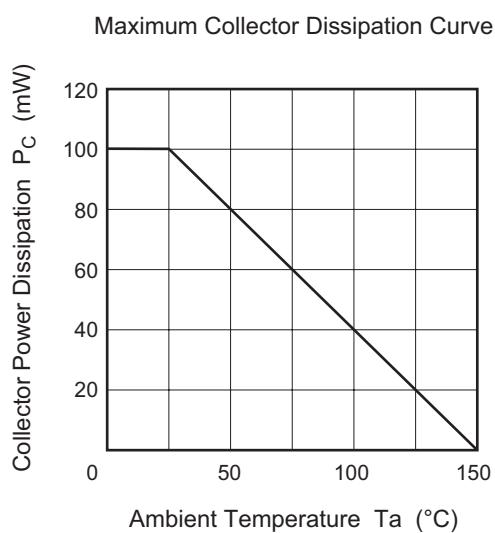
Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	25	V
Collector to emitter voltage	V _{CEO}	15	V
Emitter to base voltage	V _{EBO}	3	V
Collector current	I _C	50	mA
Collector power dissipation	P _C	100	mW
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	-55 to +150	°C

Electrical Characteristics

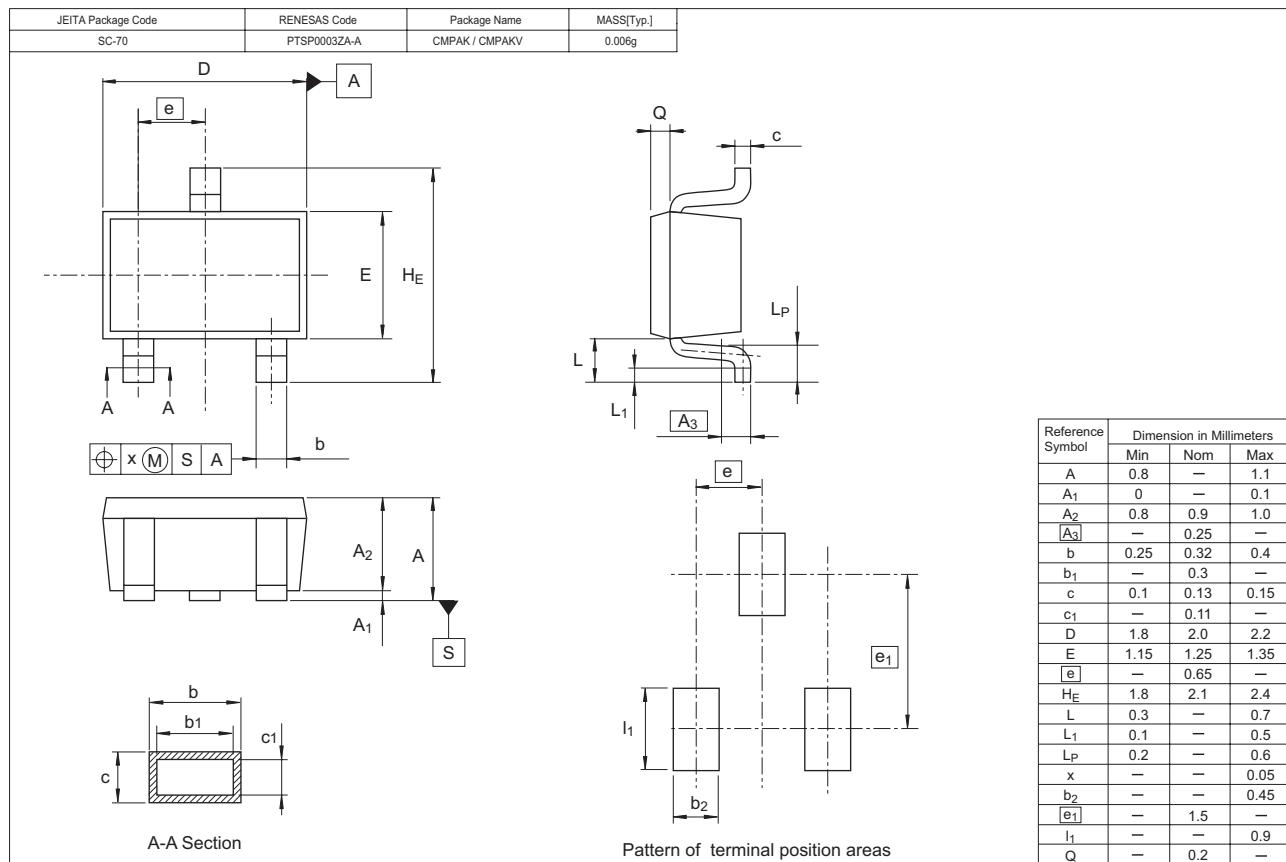
(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	V _{(BR)CBO}	25	—	—	V	I _C = 10 µA, 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} = ∞
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 = 1MHz
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	Ø 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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