Old Company Name in Catalogs and Other Documents

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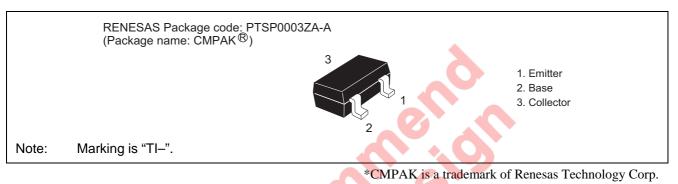
Silicon NPN Epitaxial

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

Application

UHF frequency converter, Wide band amplifier

Outline



Absolute Maximum Ratings

		$(Ta = 25^{\circ}C)$
Symbol	Ratings	Unit
V _{CBO}	25	V
V _{CEO}	13	V
V _{EBO}	3	V
Ιc	50	mA
Pc	100	mW
Tj	150	°C
Tstg	-55 to +150	°C
	Vсво Vсео V _{ЕВО} Ic Pc Tj	V _{CBO} 25 V _{CEO} 13 V _{EBO} 3 I _C 50 P _C 100 Tj 150



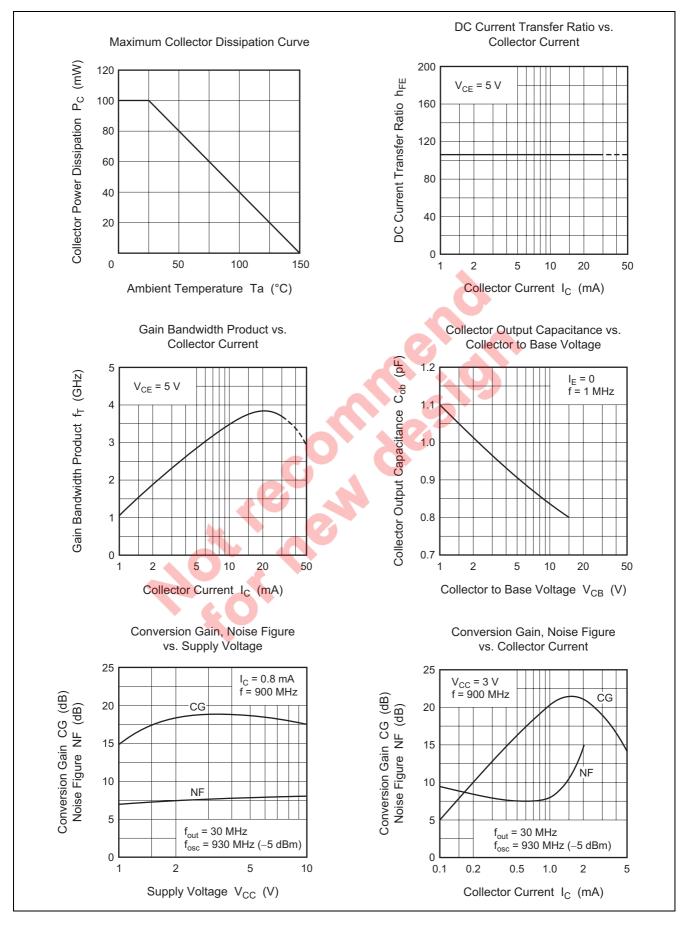
Electrical Characteristics

	-					$(1a = 25^{\circ}C)$
Item	Symbol	Min	Тур	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	$V_{CB} = 15 \text{ V}, I_E = 0$
	I _{CEO}	—	—	10	μA	V_{CE} = 13 V, R_{BE} = ∞
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	$I_C = 20 \text{ mA}, I_B = 4 \text{ mA}$
DC current transfer ratio	h _{FE}	50	—	180		$V_{CE} = 5 V, I_C = 5 mA$
Collector output capacitance	Cob	—	0.85	1.3	pF	$V_{CB} = 10 V, I_E = 0, f = 1MHz$
Gain bandwidth product	f⊤	3.0	3.8	_	GHz	$V_{CE} = 5 \text{ V}, I_{C} = 5 \text{ mA}$
Conversion gain	CG	_	19	_	dB	$V_{CC} = 5 \text{ V}, I_C = 0.8 \text{ mA},$ f = 900 MHz
Noise figure	NF	—	8	—	dB	$f_{OSC} = 930 \text{ MHz} (-5 \text{dBm}),$ $f_{out} = 30 \text{ MHz}$

 $(\mathbf{T}_{0} - 25^{\circ}\mathbf{C})$

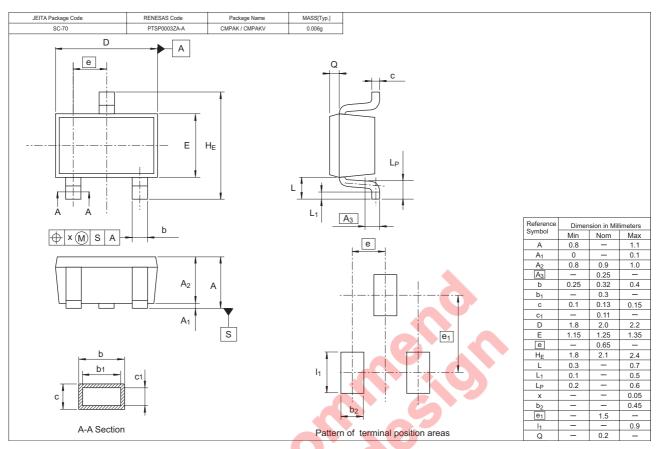


Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC4260TI-TL-E	3000	§ 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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