

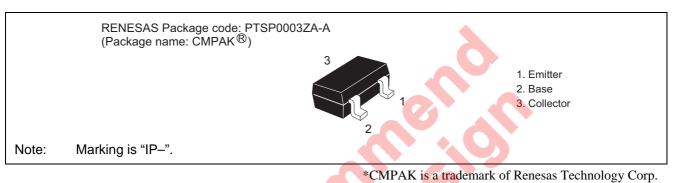
Silicon NPN Epitaxial

REJ03G0720-0300 (Previous ADE-208-1100A) Rev.3.00 Aug.10.2005

## Application

UHF / VHF Local oscillator

## Outline



# Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	20	V
Collector to emitter voltage	V <sub>CEO</sub>	15	V
Emitter to base voltage	V <sub>EBO</sub>	3	V
Collector current	Ι <sub>C</sub>	50	mA
Collector power dissipation	Pc	100	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
	•		

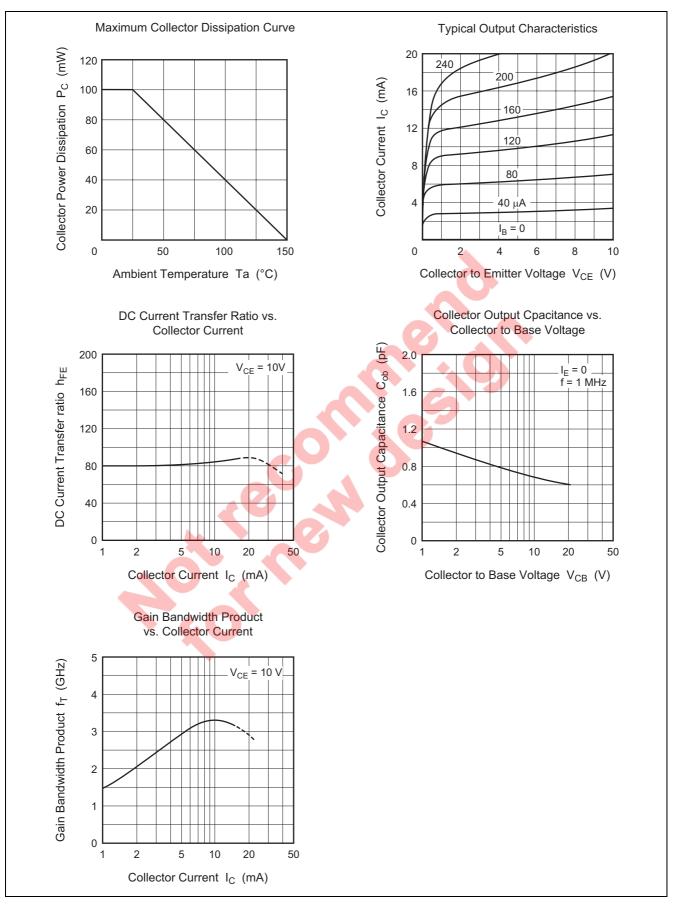


## **Electrical Characteristics**

						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V <sub>(BR)CBO</sub>	20	_		V	$I_{C} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	15	_		V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Collector cutoff current	I <sub>CBO</sub>	_	—	0.5	μA	$V_{CB} = 15 \text{ V}, I_E = 0$
Emitter cutoff current	I <sub>EBO</sub>	_	—	1.0	μA	$V_{EB} = 3 V, I_C = 0$
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	_	—	0.5	V	$I_C = 20 \text{ mA}, I_B = 4 \text{ mA}$
DC current transfer ratio	h <sub>FE</sub>	50	—	200		$V_{CE} = 10 \text{ V}, I_{C} = 5 \text{ mA}$
Collector output capacitance	Cob	_	—	1.0	рF	$V_{CB} = 10 V, I_E = 0, f = 1MHz$
Gain bandwidth product	f⊤	1.4	2.9	_	GHz	$V_{CE} = 10 \text{ V}, I_{C} = 5 \text{ mA}$

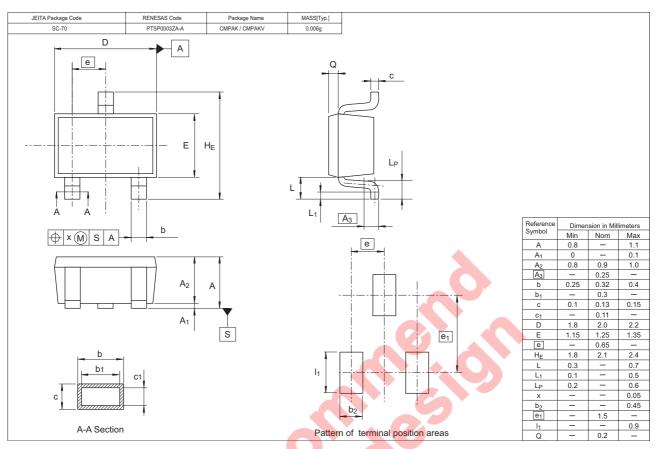


## **Main Characteristics**





## **Package Dimensions**



## **Ordering Information**

\* \*

Part Name	Quantity	Shipping Container
2SC4262IP-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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