

2SA2081

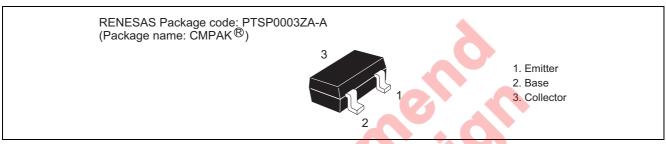
Silicon PNP Epitaxial

REJ03G0644-0100 (Previous ADE-208-1477) Rev.1.00 Aug.10.2005

Features

Low frequency amplifier

Outline



*CMPAK is a trademark of Renesas Technology Corp.

Absolute Maximum Ratings

 $(Ta = 25^{\circ}C)$

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	– 55	V
Collector to emitter voltage	V _{CEO}	– 55	V
Emitter to base voltage	V_{EBO}	- 5	V
Collector current	Ic	-100	mA
Collector power dissipation	P _C *	150	mW
Junction temperature	Τj	150	°C
Storage temperature	Tstg	-55 to +150	°C

^{*}Value on the glass epoxy board (10 mm x 10 mm x 0.7 mm)

Electrical Characteristics

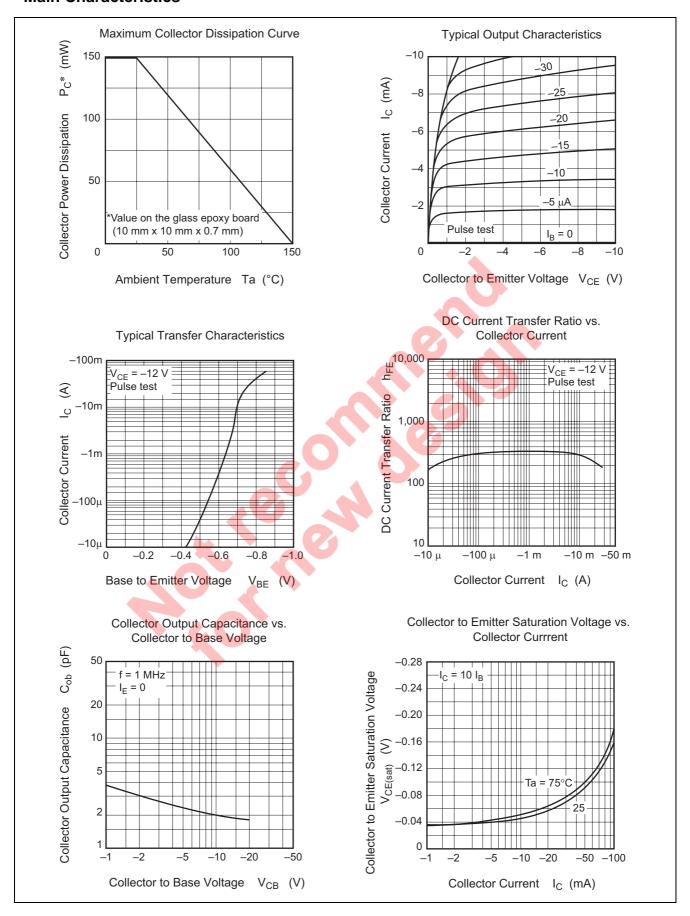
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	-55	_	_	V	$I_C = -10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	-55	_	_	V	$I_C = -1$ mA, $R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	- 5	_	_	V	$I_E = -10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	-0.5	μΑ	$V_{CB} = -30 \text{ V}, I_E = 0$
Emitter cutoff current	I _{EBO}	_	_	-0.5	μΑ	$V_{EB} = -2 \text{ V}, I_C = 0$
DC current transfer ratio	h _{FE} *1	160	_	500	_	$V_{CE} = -12 \text{ V}, I_{C} = -2 \text{ mA}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	_	_	-0.5	V	$I_C = -10 \text{ mA}, I_B = -1 \text{ mA}$
Base to emitter voltage	V_{BE}	_	_	-0.75	V	$V_{CE} = -12 \text{ V}, I_{C} = -2 \text{ mA}$

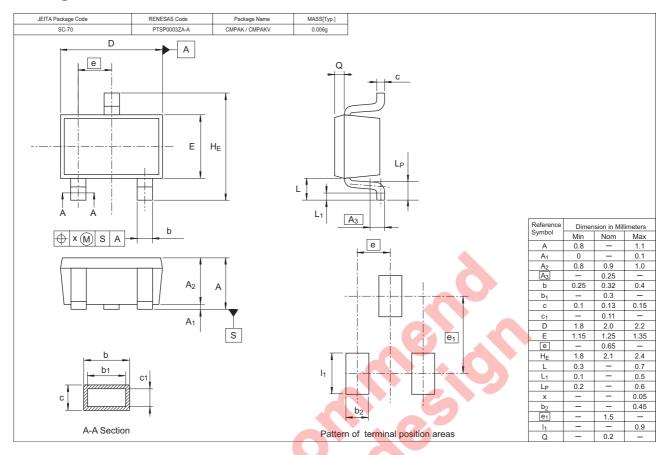
Notes: 1. The 2SA2081 is grouped by hFE as follows.

Grade	С	D
Mark	CC	CD
h _{FE}	160 to 320	250 to 500

Main Characteristics



Package Dimensions



Ordering Information

Part Name		Quantity		Shipping Container	
2SA2081CCTL-E	3000		φ 178	mm Reel, 8 mm Emboss Taping	
2SA2081CDTL-E					

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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