

Silicon PNP Epitaxial

REJ03G0643-0100 (Previous ADE-208-1476) Rev.1.00 Aug.10.2005

## Features

Low frequency amplifier

## Outline



# **Absolute Maximum Ratings**

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Collector to base voltage	V <sub>CBO</sub>	-30	V
Collector to emitter voltage	V <sub>CEO</sub>	-30	V
Emitter to base voltage	V <sub>EBO</sub>	-5	V
Collector current	lc	-100	mA
Emitter current	IE	100	mA
Collector power dissipation	Pc*	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	–55 to +125	٥C

\*Value on the glass epoxy board (10 mm x 10 mm x 0.7 mm)



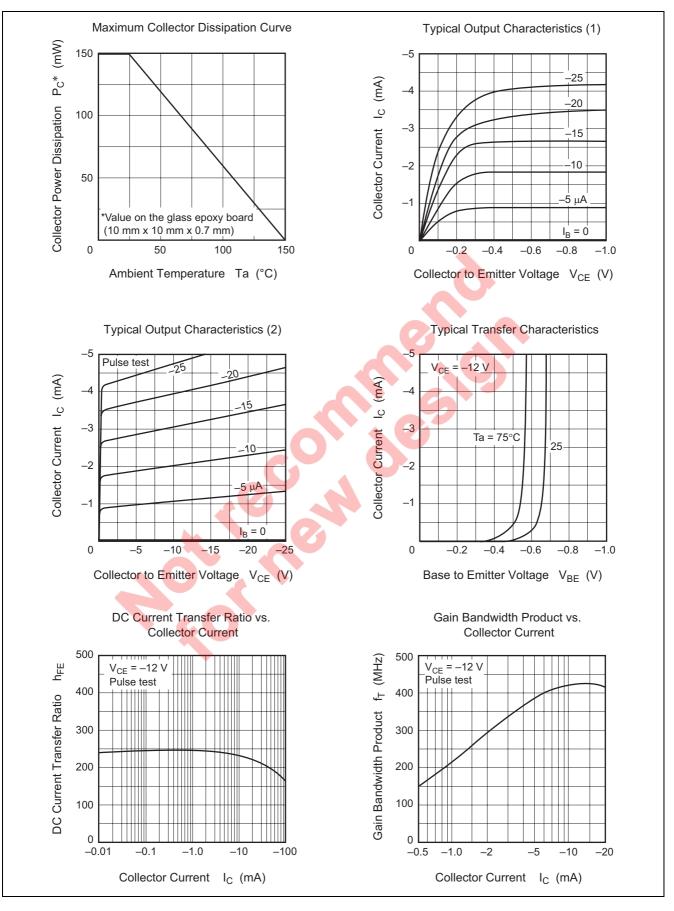
## **Electrical Characteristics**

						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V <sub>(BR)CBO</sub>	-30	—	—	V	$I_{C} = -10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	V <sub>(BR)CEO</sub>	-30	—	—	V	$I_{C} = -1 \text{ mA}, \text{ R}_{BE} = \infty$
Emitter to base breakdown voltage	V <sub>(BR)EBO</sub>	-5	_	—	V	$I_E = -10 \ \mu A, \ I_C = 0$
Collector cutoff current	I <sub>СВО</sub>	—	_	-0.5	μA	$V_{CB} = -20 \text{ V}, I_E = 0$
Emitter cutoff current	I <sub>EBO</sub>	—	_	-0.5	μA	$V_{EB} = -2 V, I_C = 0$
DC current transfer ratio	h <sub>FE</sub> * <sup>1</sup>	160	_	500	_	$V_{CE} = -12 \text{ V}, I_C = -2 \text{ mA}$
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	—	_	-0.2	V	$I_{\rm C} = -10$ mA, $I_{\rm B} = -1$ mA
Base to emitter voltage	V <sub>BE</sub>			-0.75	V	$V_{CE} = -12 \text{ V}, I_C = -2 \text{ mA}$

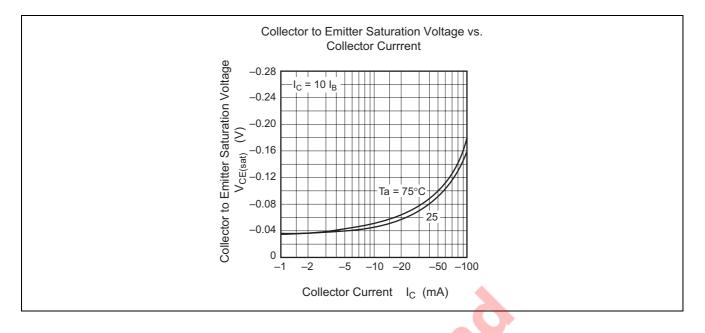
Notes: 1. The 2SA2080 is grouped by hFE as follows.

Grade	С	D
Mark	MC	MD
h <sub>FE</sub>	160 to 320	250 to 500

## **Main Characteristics**

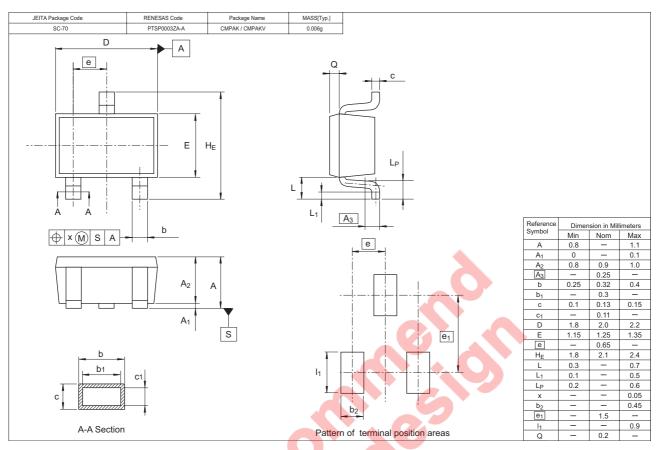








## **Package Dimensions**



## **Ordering Information**

Part Name	Quantity	Shipping Container
2SA2080MCTL-E	3000	φ 178 mm Reel, 8 mm Emboss Taping
2SA2080MDTL-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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