

2SC2618

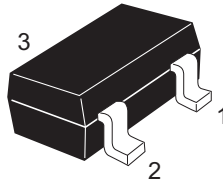
Silicon NPN Epitaxial

REJ03G0702-0200
(Previous ADE-208-1069)
Rev.2.00
Aug.10.2005

Application

- Low frequency amplifier
- Complementary pair with 2SA1121

Outline

RENESAS Package code: PLSP0003ZB-A
(Package name: MPAK)

1. Emitter
2. Base
3. Collector

Absolute Maximum Ratings

(Ta = 25°C)

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	35	V
Collector to emitter voltage	V_{CEO}	35	V
Emitter to base voltage	V_{EBO}	4	V
Collector current	I_C	500	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

Electrical Characteristics

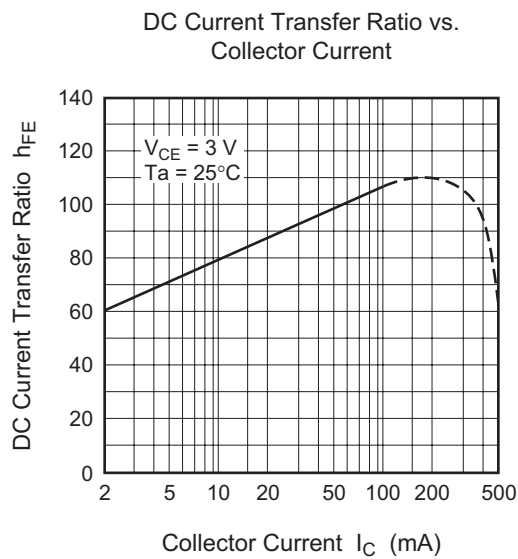
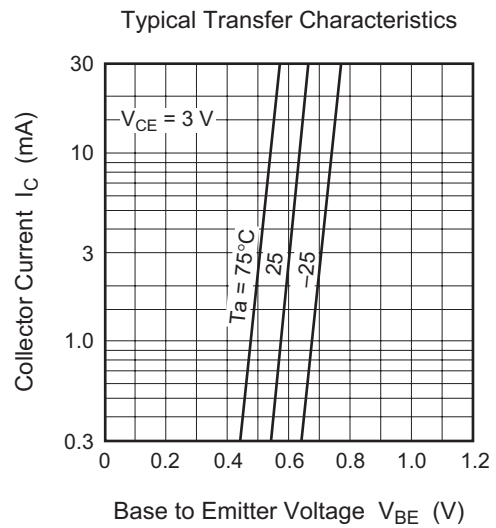
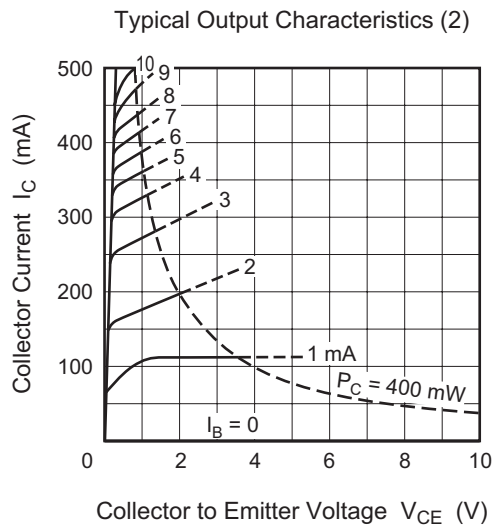
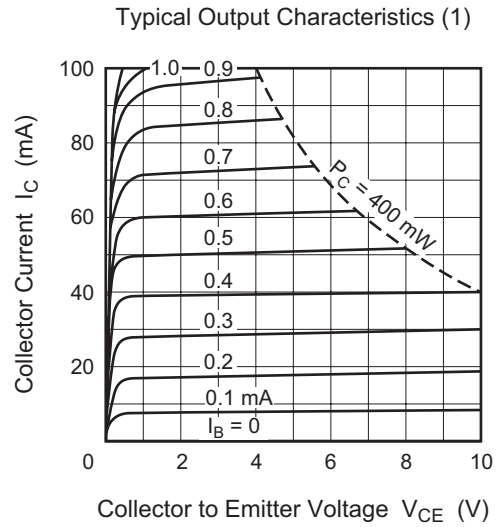
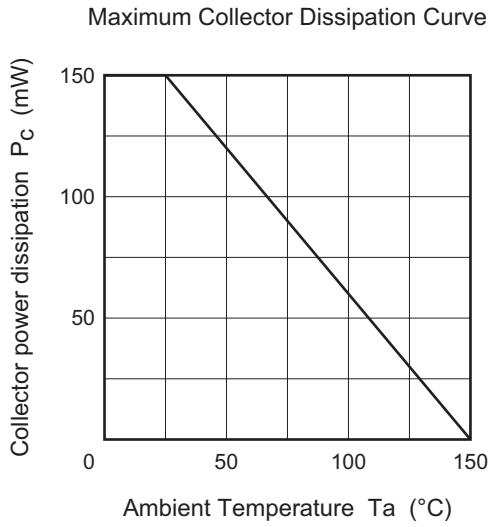
(Ta = 25°C)

Item	Symbol	Min	Typ	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	35	—	—	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	35	—	—	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	4	—	—	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I_{CBO}	—	—	0.5	μA	$V_{CB} = 20 \text{ V}, I_C = 0$
DC current transfer ratio	h_{FE1}^{*1}	100	—	320		$V_{CE} = 3 \text{ V}, I_C = 10 \text{ mA}$ (Pulse test)
	h_{FE2}	10	—	—		$V_{CE} = 3 \text{ V}, I_C = 500 \text{ mA}$ (Pulse test)
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	0.2	0.6	V	$I_C = 150 \text{ mA}, I_B = 15 \text{ mA}$ (Pulse test)
Base to emitter voltage	V_{BE}	—	0.64	—	V	$V_{CE} = 3 \text{ V}, I_C = 10 \text{ mA}$ (Pulse test)

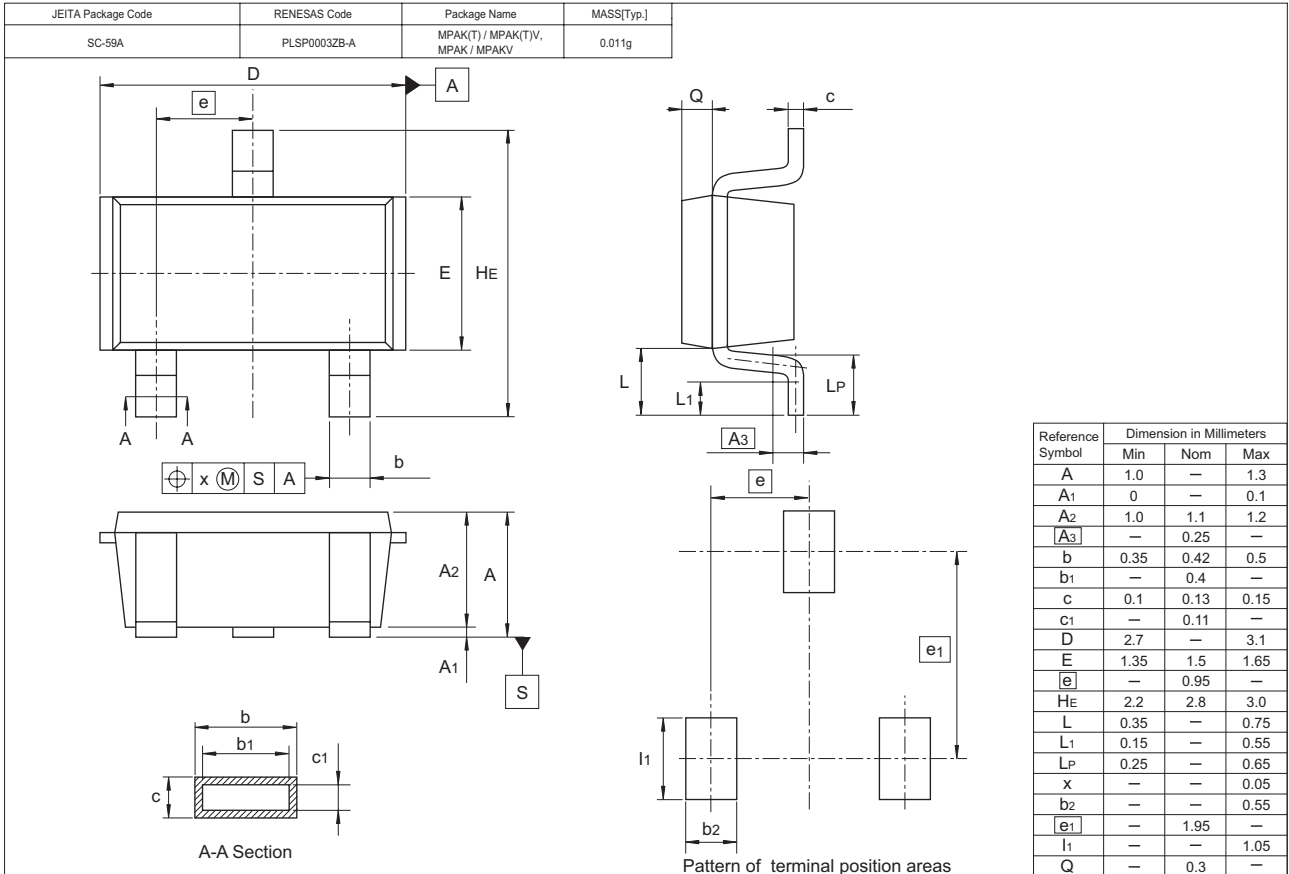
Note: 1. The 2SC2618 is grouped by h_{FE1} as follows.

Grade	C	D
Mark	RC	RD
h_{FE1}	100 to 200	160 to 320

Main Characteristics



Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC2618RCTL-E	3000	φ 178 mm Reel, 8 mm Emboss Taping
2SC2618RDTL-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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