

2SC2618

Silicon NPN Epitaxial

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

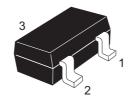
Application

- 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

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

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	Ic	500	mA
Collector power dissipation	P _C	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics

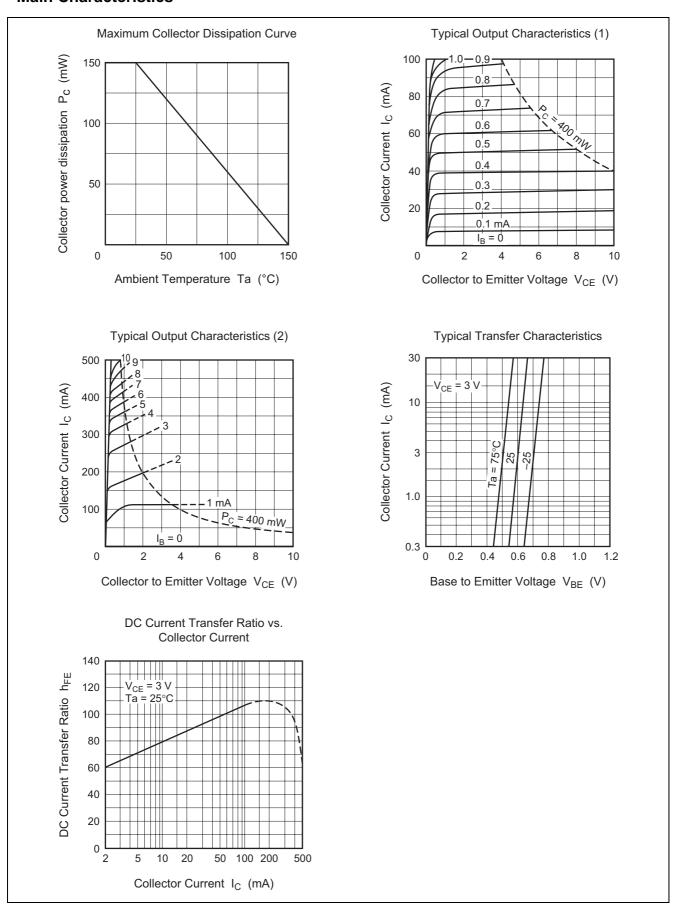
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	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	μΑ	$V_{CB} = 20 \text{ V}, I_C = 0$
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)

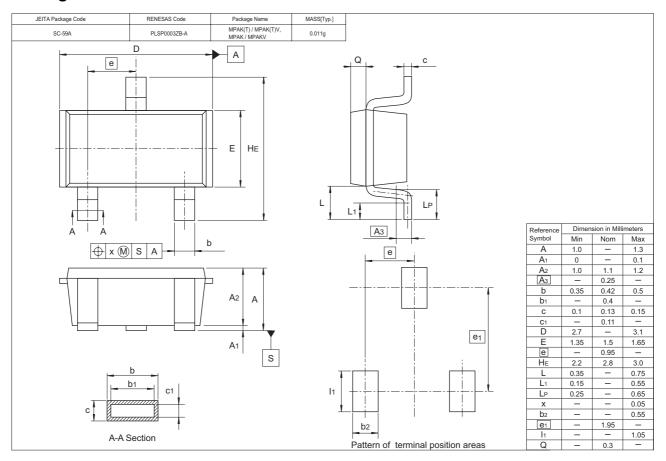
Note: 1. The 2SC2618 is grouped by h_{FE1} as follows.

Grade	С	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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