

# 2SC2618

## Silicon NPN Epitaxial

R07DS0273EJ0300 (Previous: REJ03G0702-0200) Rev.3.00

Mar 28, 2011

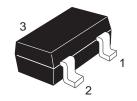
### **Application**

- 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 <sub>CBO</sub>	35	V
Collector to emitter voltage	V <sub>CEO</sub>	35	V
Emitter to base voltage	$V_{EBO}$	4	V
Collector current	Ic	500	mA
Collector power dissipation	P <sub>C</sub>	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

### **Electrical Characteristics**

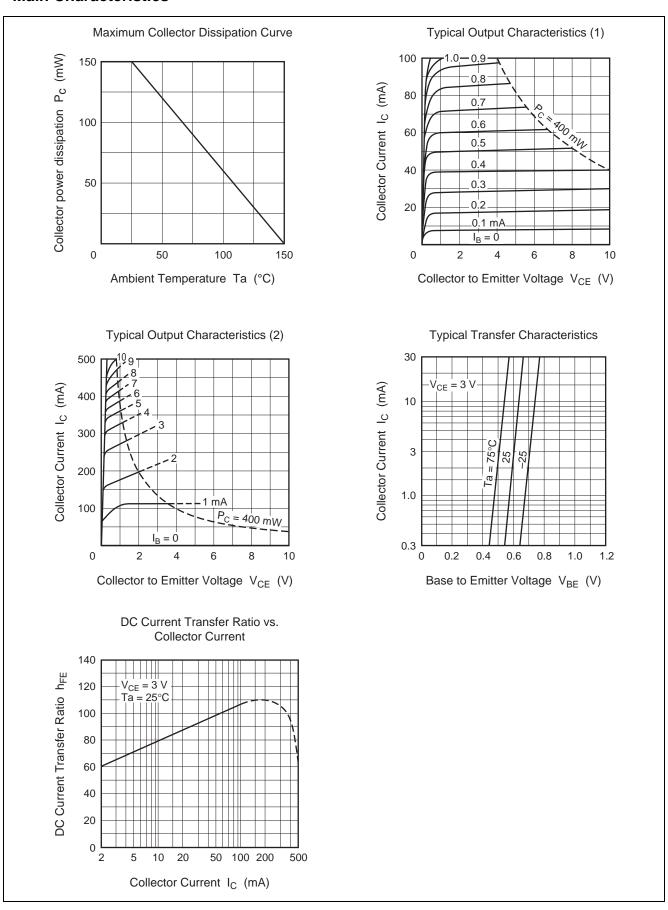
 $(Ta = 25^{\circ}C)$ 

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 <sub>CBO</sub>	_	_	0.5	μΑ	$V_{CB} = 20 \text{ V}, I_C = 0$
DC current transfer ratio	h <sub>FE1</sub> *1	100	_	320		$V_{CE} = 3 \text{ V, } I_{C} = 10 \text{ mA}$ (Pulse test)
	h <sub>FE2</sub>	10	_	_		$V_{CE} = 3 \text{ V, } I_{C} = 500 \text{ mA}$ (Pulse test)
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	_	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 <sub>CE</sub> = 3 V, I <sub>C</sub> = 10 mA (Pulse test)

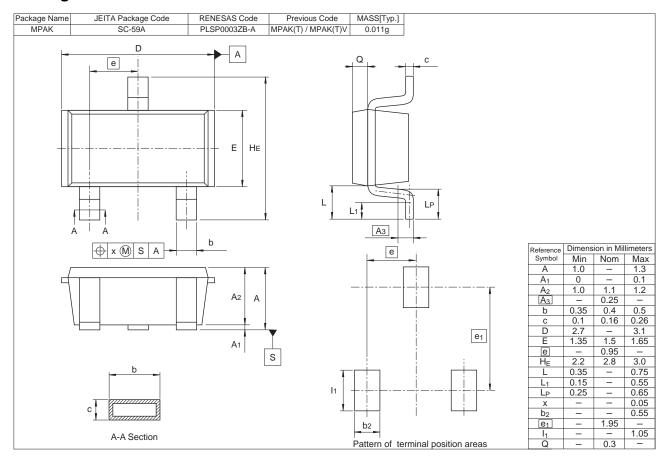
Note: 1. The 2SC2618 is grouped by  $h_{\text{FE}1}$  as follows.

Grade	С	D
Mark	RC	RD
h <sub>FE1</sub>	100 to 200	160 to 320

### **Main Characteristics**



### **Package Dimensions**



### **Ordering Information**

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

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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