

# 2SC2618

## Silicon NPN Epitaxial

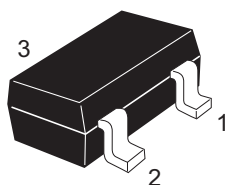
REJ03G0702-0200  
(Previous ADE-208-1069)  
Rev.2.00  
Aug.10.2005

### 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

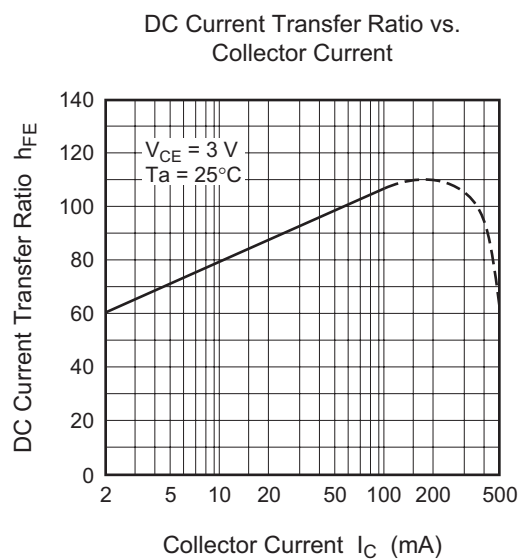
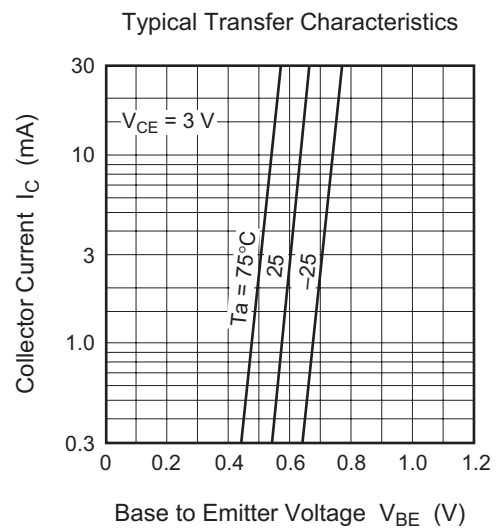
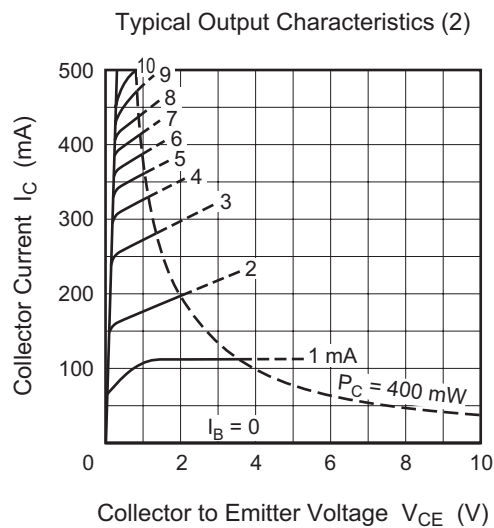
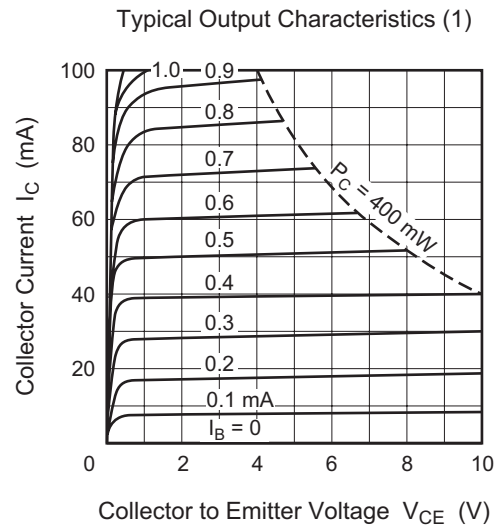
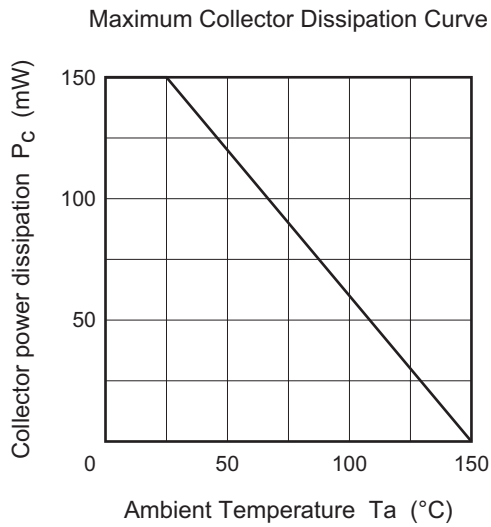
(Ta = 25°C)

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	$I_C = 1\ mA, R_{BE} = \infty$
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	$\mu A$	$V_{CB} = 20\ V, I_C = 0$
DC current transfer ratio	$h_{FE1}^{*1}$	100	—	320		$V_{CE} = 3\ V, I_C = 10\ mA$ (Pulse test)
	$h_{FE2}$	10	—	—		$V_{CE} = 3\ V, I_C = 500\ mA$ (Pulse test)
Collector to emitter saturation voltage	$V_{CE(sat)}$	—	0.2	0.6	V	$I_C = 150\ mA, I_B = 15\ mA$ (Pulse test)
Base to emitter voltage	$V_{BE}$	—	0.64	—	V	$V_{CE} = 3\ V, I_C = 10\ mA$ (Pulse test)

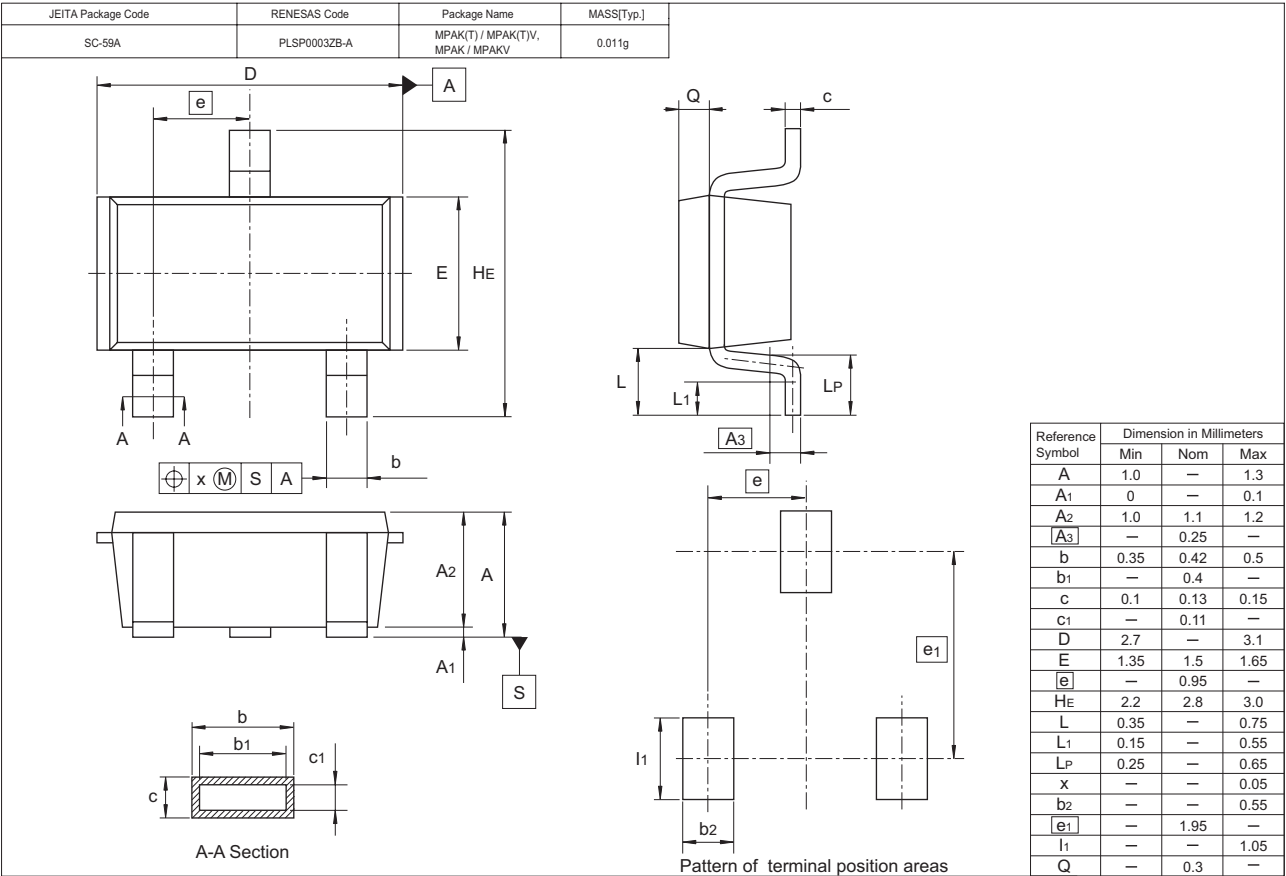
Note: 1. The 2SC2618 is grouped by  $h_{FE1}$  as follows.

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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Tel: <82> 2-796-3115, Fax: <82> 2-796-2145

#### **Renesas Technology Malaysia Sdn. Bhd.**

Unit 906, Block B, Menara Amcorp, Amcorp Trade Centre, No.18, Jalan Persiaran Barat, 46050 Petaling Jaya, Selangor Darul Ehsan, Malaysia  
Tel: <603> 7955-9390, Fax: <603> 7955-9510