

# 2SC2462

# Silicon NPN Epitaxial

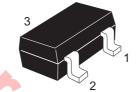
REJ03G0697-0200 (Previous ADE-208-1063) Rev.2.00 Aug.10.2005

### **Application**

Low frequency amplifier

#### **Outline**

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



- 1. Emitter
- 2. Base
- 3. Collector

# **Absolute Maximum Ratings**

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

Item	Symbol	Symbol Ratings	
Collector to base voltage	V <sub>CBO</sub>	V <sub>CBO</sub> 50	
Collector to emitter voltage	V <sub>CEO</sub>	40	V
Emitter to base voltage	V <sub>EBO</sub>	5	V
Collector current	Ic	100	mA
Emitter current	Ι <sub>Ε</sub>	-100	mA
Collector power dissipation	Pc	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

#### **Electrical Characteristics**

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

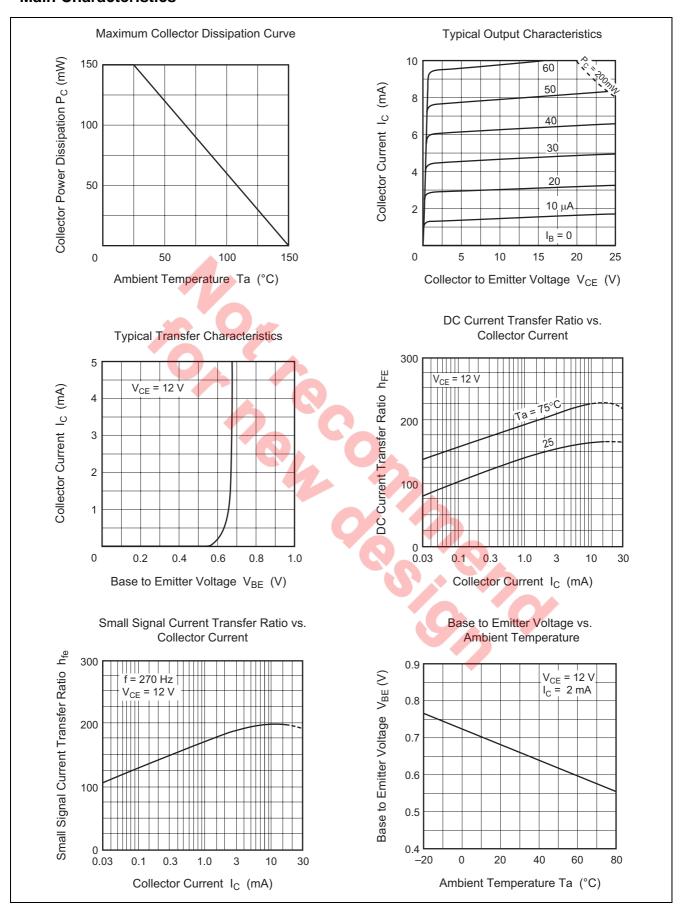
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	50	_	_	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	40	_	_	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I <sub>CBO</sub>	_	_	0.5	μΑ	$V_{CB} = 30 \text{ V}, I_{E} = 0$
Emitter cutoff current	I <sub>EBO</sub>	_	_	0.5	μΑ	$V_{EB} = 2 \text{ V}, I_{C} = 0$
DC current transfer ratio	h <sub>FE</sub> *1	100	_	500		V <sub>CE</sub> = 12 V, I <sub>C</sub> = 2 mA
Collector to emitter saturation voltage	$V_{CE(sat)}$	_	_	0.2	V	I <sub>C</sub> = 10 mA, I <sub>B</sub> = 1 mA
Base to emitter voltage	$V_{BE}$	_	_	0.75	V	$V_{CE} = 12 \text{ V}, I_{C} = 2 \text{ mA}$

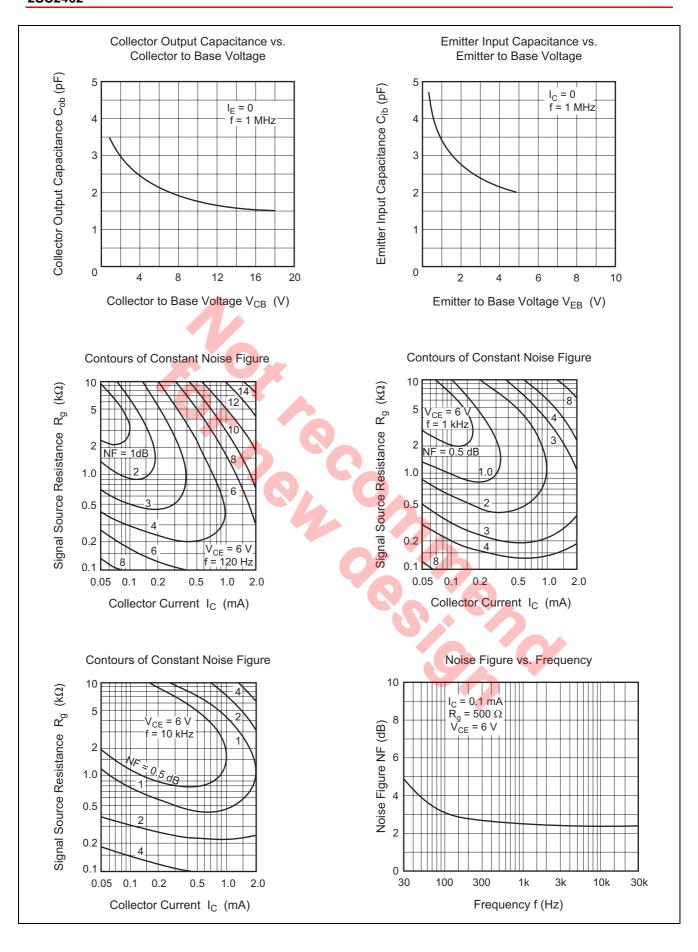
Note: 1. The 2SC2462 is grouped by hFE as follows.

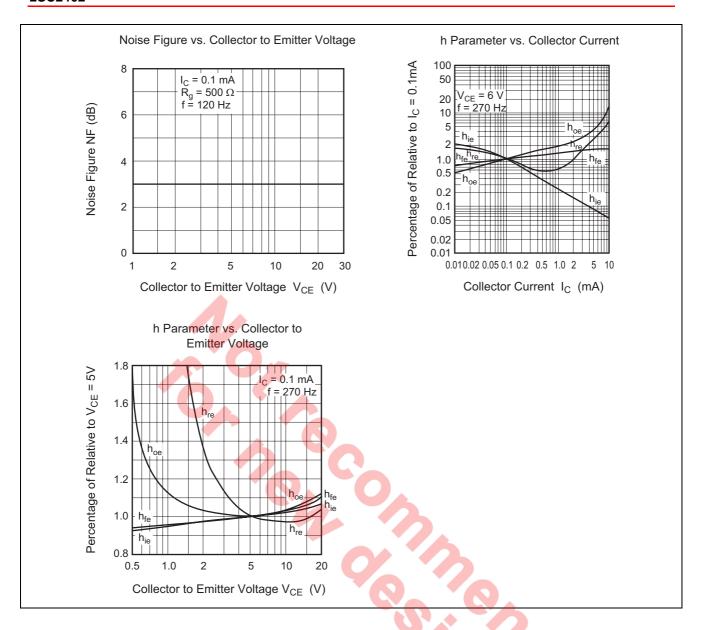
Grade	В	C	D	
Mark	LB	LC	LD	
h <sub>FE</sub>	100 to 200	160 to 320	250 to 500	



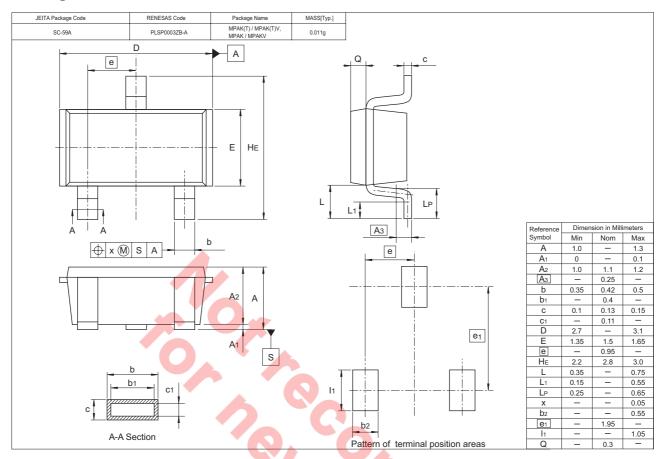
#### **Main Characteristics**







### **Package Dimensions**



## **Ordering Information**

Part Name	Quantity	Shipping Container
2SC2462LBTL-E	3000	φ 178 mm Reel, 8 mm Emboss Taping
2SC2462LCTL-E		
2SC2462LDTL-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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