

# 2SC2463

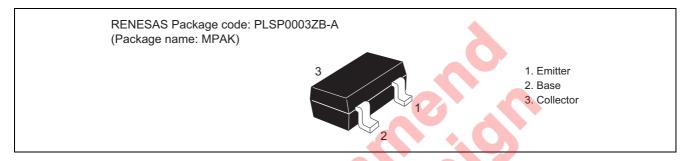
## Silicon NPN Epitaxial

REJ03G0698-0200 (Previous ADE-208-1064) Rev.2.00 Aug.10.2005

### **Application**

Low frequency amplifier

### **Outline**



## **Absolute Maximum Ratings**

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

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

#### **Electrical Characteristics**

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

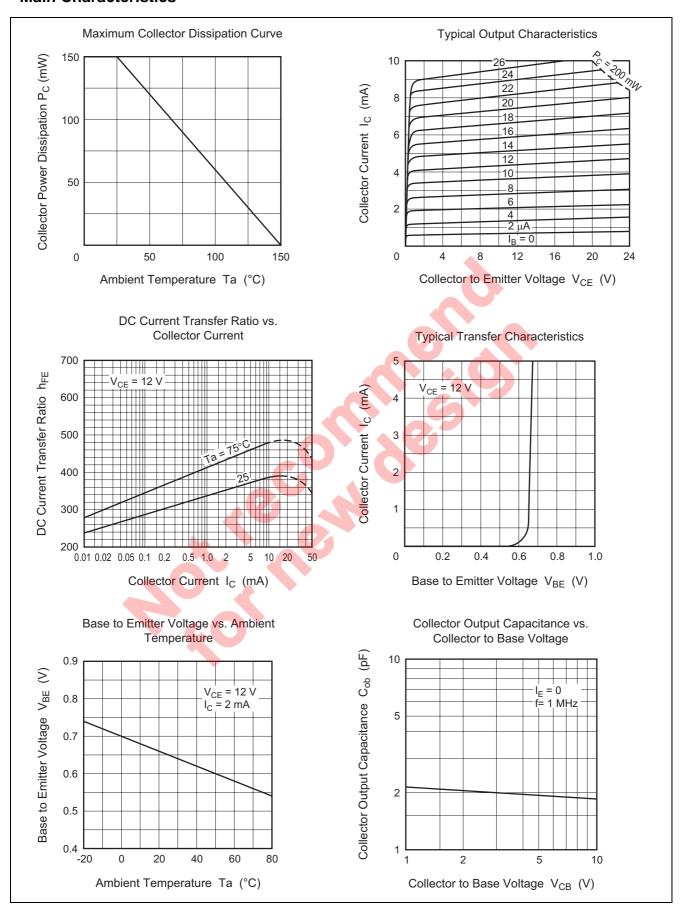
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	55		_	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	50	_	_	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_E = 10 \mu A, I_C = 0$
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	250	_	800		$V_{CE} = 12 \text{ V}, I_{C} = 2 \text{ mA}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	_	_	0.5	V	I <sub>C</sub> = 10 mA, I <sub>B</sub> = 1 mA
Base to emitter voltage	$V_{BE}$	_	_	0.75	V	$V_{CE} = 12 \text{ V}, I_{C} = 2 \text{ mA}$

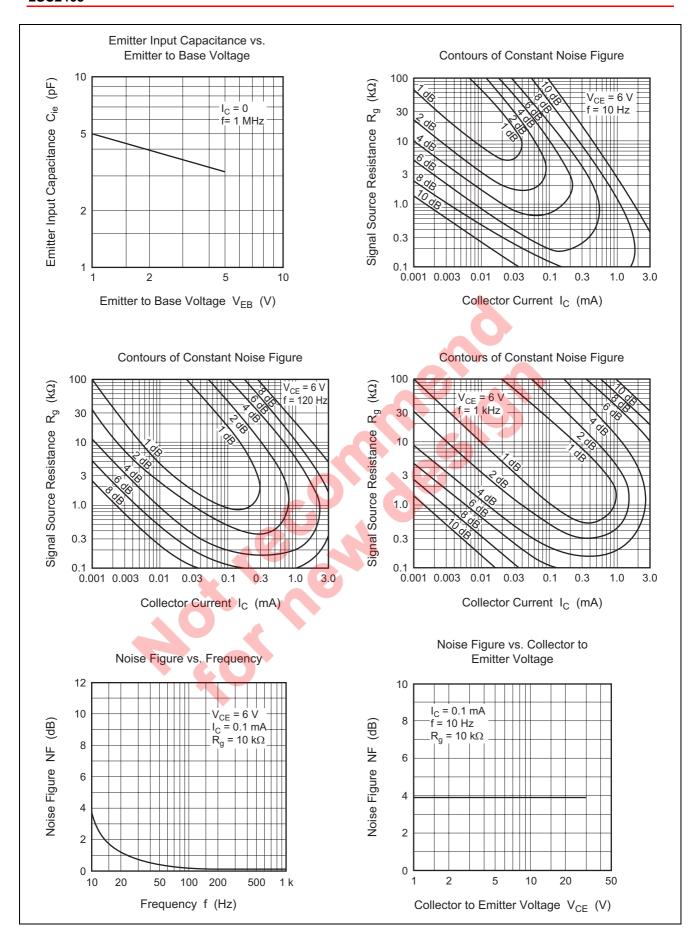
Note: 1. The 2SC2463 is grouped by hFE as follows.

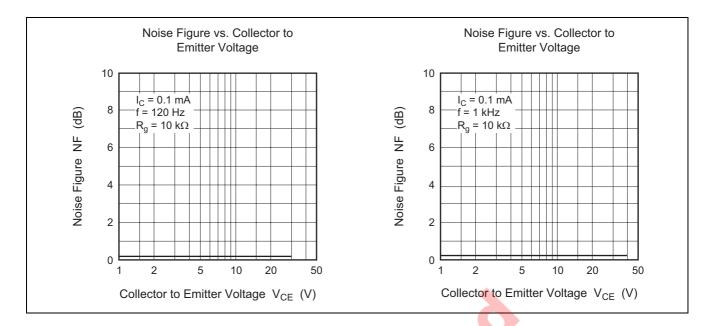
Grade	D	E
Mark	DD	DE
h <sub>FE</sub>	250 to 500	400 to 800



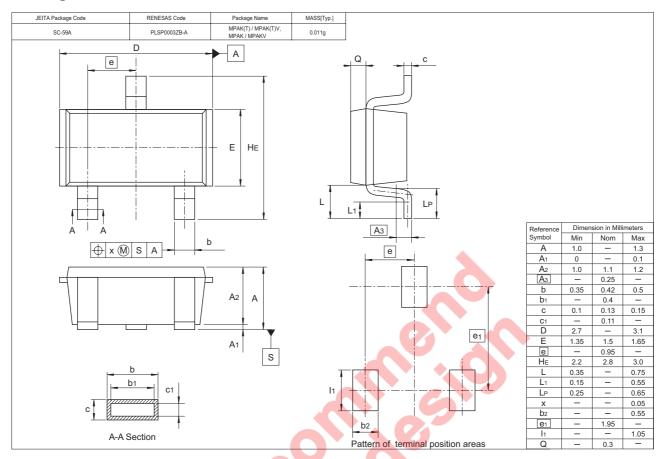
#### **Main Characteristics**







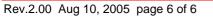
## **Package Dimensions**



## **Ordering Information**

Part Name	Quantity		Shipping Container
2SC2463DETL-E	3000	ф	178 mm Reel, 8 mm Emboss Taping

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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