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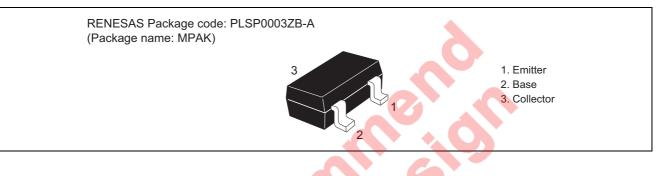
Silicon NPN Epitaxial

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 _{сво}	55	V
Collector to emitter voltage	V _{CEO}	50	V
Emitter to base voltage	V _{EBO}	5	V
Collector current	I _c	100	mA
Collector power dissipation	Pc	150	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C
	•		



Electrical Characteristics

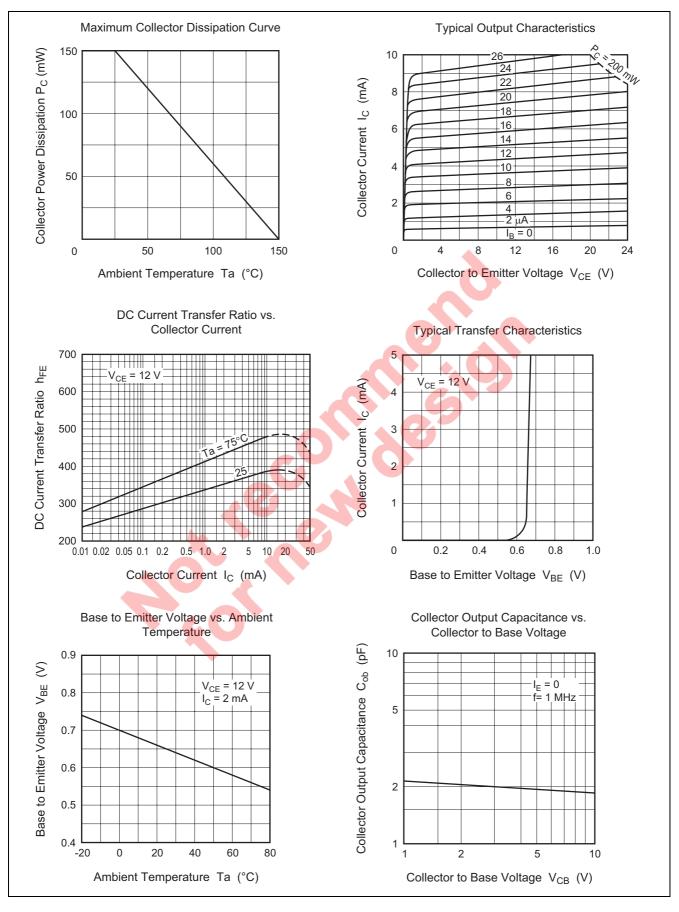
						$(Ta = 25^{\circ}C)$
ltem	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V _{(BR)CBO}	55	—	—	V	$I_{C} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	V _{(BR)CEO}	50	—	—	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	V _{(BR)EBO}	5	_	_	V	$I_E = 10 \ \mu A, \ I_C = 0$
Collector cutoff current	I _{CBO}	_	_	0.5	μA	$V_{CB} = 30 V, I_E = 0$
Emitter cutoff current	I _{EBO}	_	_	0.5	μA	$V_{EB} = 2 V, I_C = 0$
DC current transfer ratio	h _{FE} * ¹	250	_	800		$V_{CE} = 12 \text{ V}, \text{ I}_{C} = 2 \text{ mA}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	0.5	V	$I_{C} = 10 \text{ mA}, I_{B} = 1 \text{ mA}$
Base to emitter voltage	V _{BE}	_	_	0.75	V	$V_{CE} = 12 \text{ V}, \text{ I}_{C} = 2 \text{ mA}$

1. The 2SC2463 is grouped by h_{FE} as follows. Note:

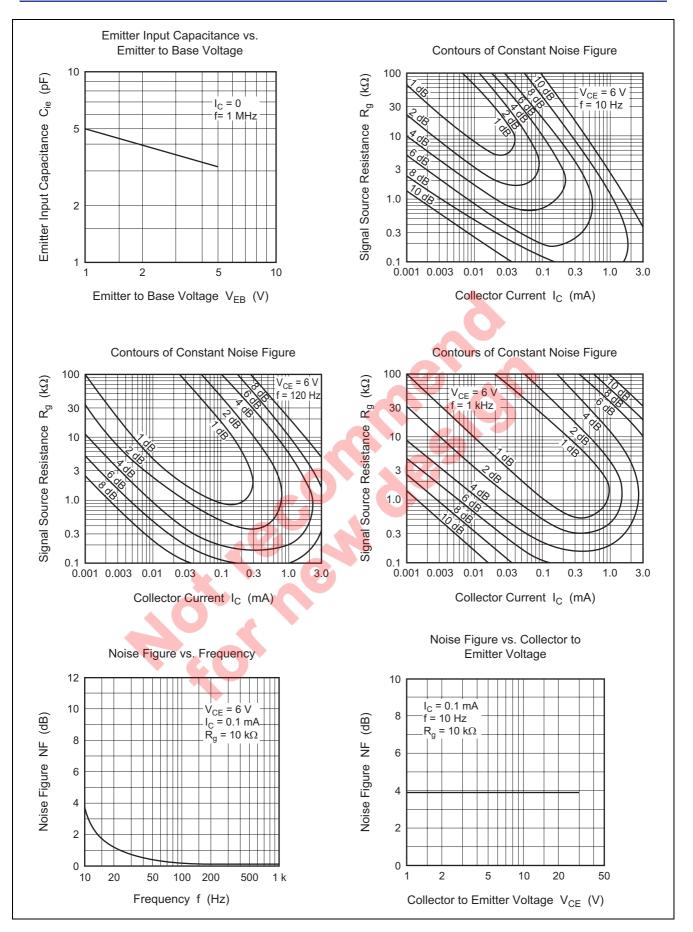
Grade	D	E
Mark	DD	DE
h _{FE}	250 to 500	400 to 800



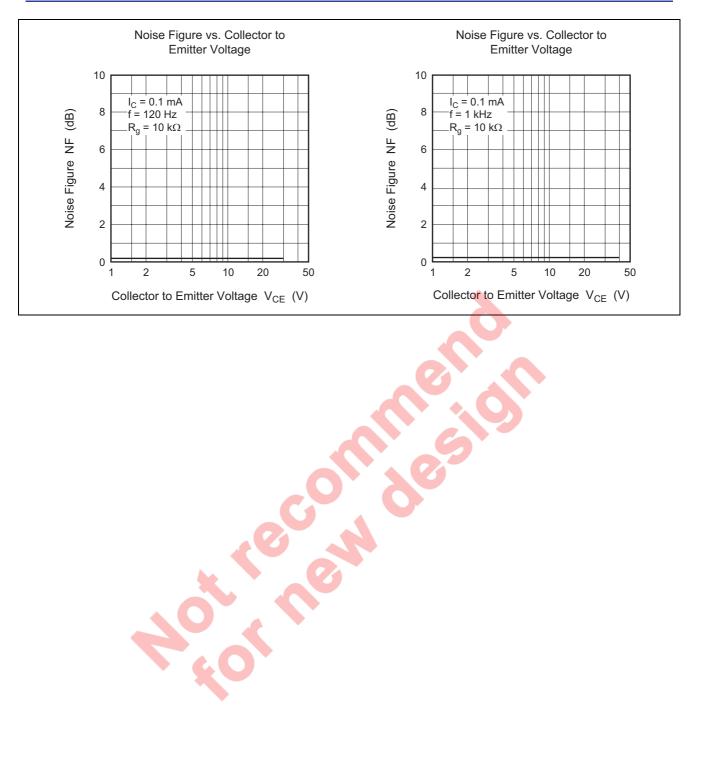
Main Characteristics





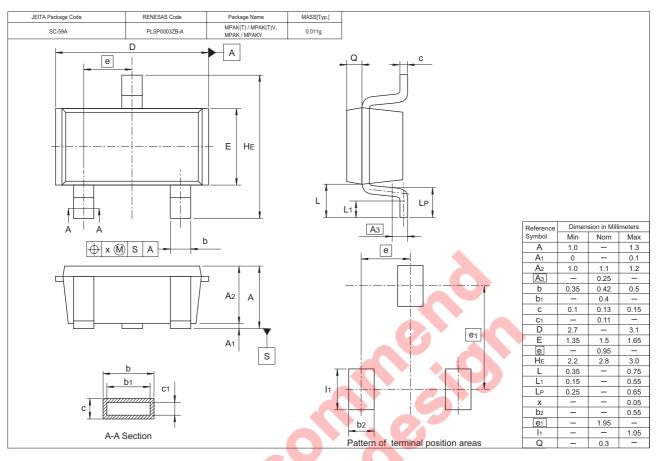








Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container	
2SC2463DETL-E	3000	♦ 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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