

2SD1470

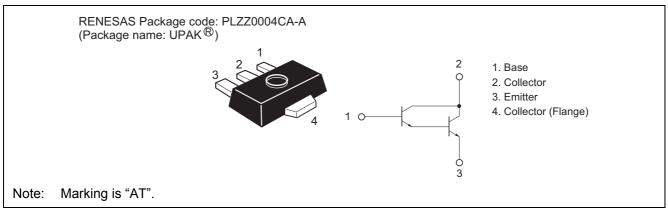
Silicon NPN Epitaxial, Darlington

REJ03G0791-0200 (Previous ADE-208-1153) Rev.2.00 Aug.10.2005

Application

Low frequency power amplifier

Outline



*UPAK is a trademark of Renesas Technology Corp.

Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	60	V
Collector to emitter voltage	V _{CEO}	60	V
Emitter to base voltage	V _{EBO}	7	V
Collector current	I _C	1	Α
Collector peak current	i _{C(peak)} *1	2	Α
Collector power dissipation	Pc*2	1	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Notes: 1. PW ≤ 10 ms, Duty cycle ≤ 20%

2. Value on the alumina ceramic board (12.5 x 30 x 0.7 mm)

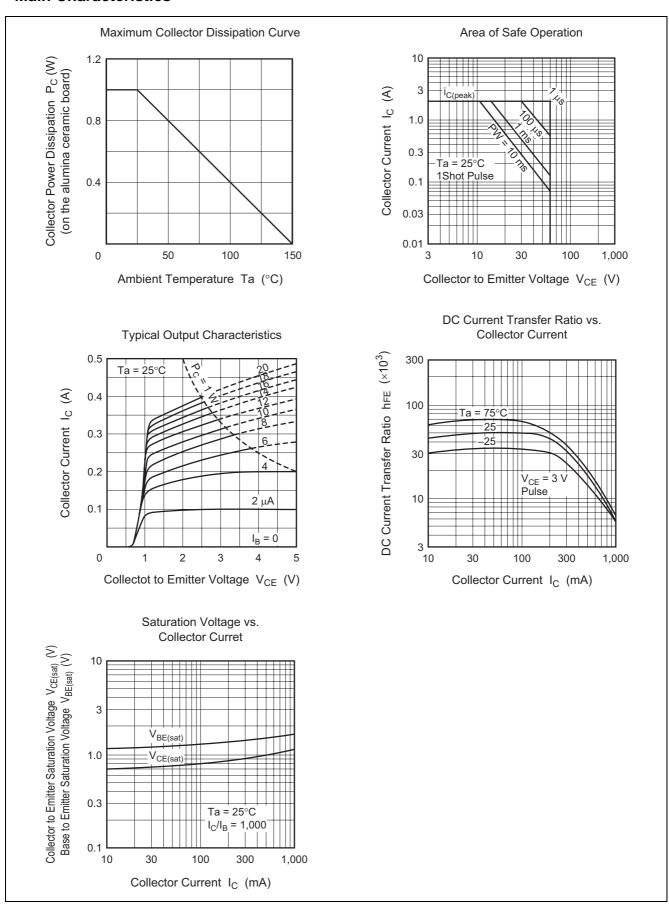
Electrical Characteristics

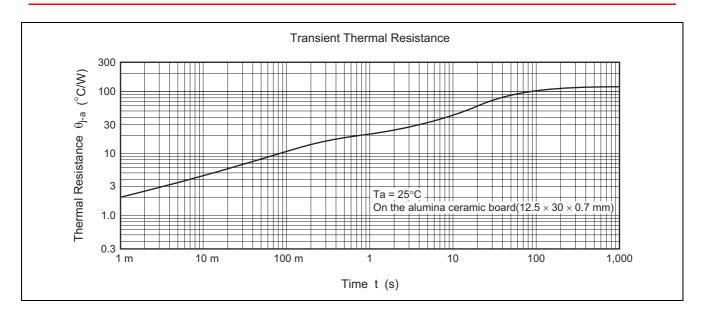
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	60	_	_	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	60	_	_	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	V _{(BR)EBO}	7	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	10	μΑ	$V_{CB} = 60 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}	_	_	10	μΑ	$V_{EB} = 7 \text{ V}, I_{C} = 0$
DC current transfer ratio	h _{FE}	2000	_	100000		$V_{CE} = 3 \text{ V}, I_{C} = 0.5 \text{ A}^{*1}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	1.5	V	$I_C = 500 \text{ mA}, I_B = 0.5 \text{ mA}^{*1}$
Base to emitter saturation voltage	V _{BE(sat)}	_	_	2.0	V	$I_C = 500 \text{ mA}, I_B = 0.5 \text{ mA*}^1$

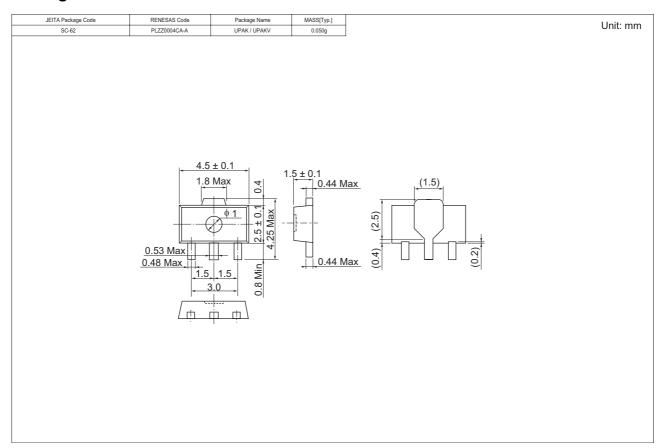
Notes: 1. Pulse test

Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SD1470ATTR-E	1000	φ 178 mm Reel, 12 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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