

HIT1213

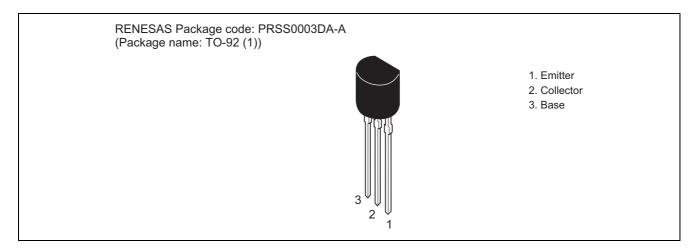
Silicon NPN Epitaxial

REJ03G1609-0100 Rev.1.00 Nov 28, 2007

Features

- Low frequency power amplifier
- Complementary pair with HIT673

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	50	V
Collector to emitter voltage	V _{CEO}	50	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	Ic	0.5	A
Collector peak current	I _{C (peak)} Note	1.0	A
Collector power dissipation	P _C	0.4	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Note: PW ≤ 10 ms, Duty cycle ≤ 20%

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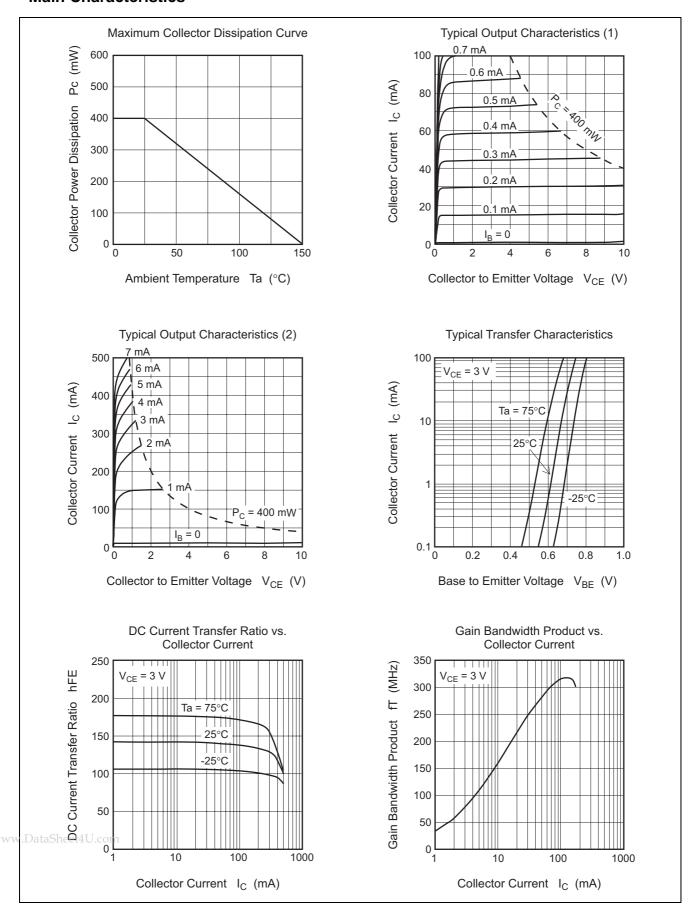
Electrical Characteristics

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

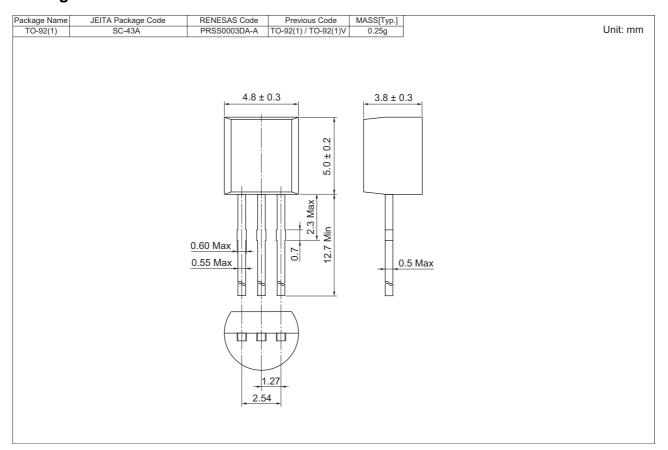
Item	Symbol	Min.	Тур	Max.	Unit	Test Conditions
Collector to base breakdown voltage	V _{(BR)CBO}	50	_	_	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	50	_	_	V	I _C = 0.1 mA, R _{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	5	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	_	_	500	nA	$V_{CB} = 50 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}	_	_	500	nA	V _{EB} = 5 V
DC current transfer ratio	h _{FE1}	60	_	320	_	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	0.6	V	I _C = 150 mA, I _B = 15 mA
Base to emitter voltage	V _{BE(on)}	_	_	1.2	V	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$

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Main Characteristics



Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
HIT1213-EQ	2500 pcs.	Bulk, Vinyl Bag
HIT1213-TZ-EQ	2500 pcs.	Hold Box, Radial Taping

Note: This product is designed for consumer use and not for automotive.

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