

HIT468

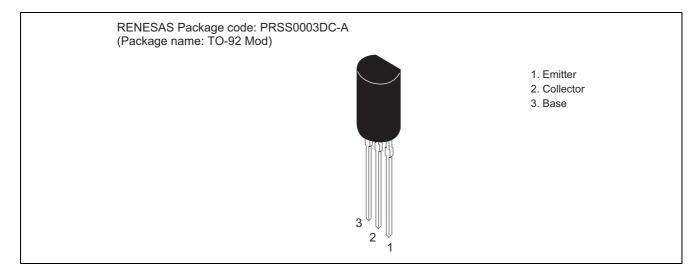
Silicon NPN Epitaxial

REJ03G1502-0300 Rev.3.00 Jun 23, 2009

Features

- Low frequency power amplifier
- Complementary pair with HIT562

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	45	V
Collector to emitter voltage	V _{CEO}	25	V
Emitter to base voltage	V _{EBO}	6	V
Collector current	Ic	1.0	Α
Collector peak current	I _{C (peak)} *1	1.5	Α
Collector power dissipation	P _C	0.8	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

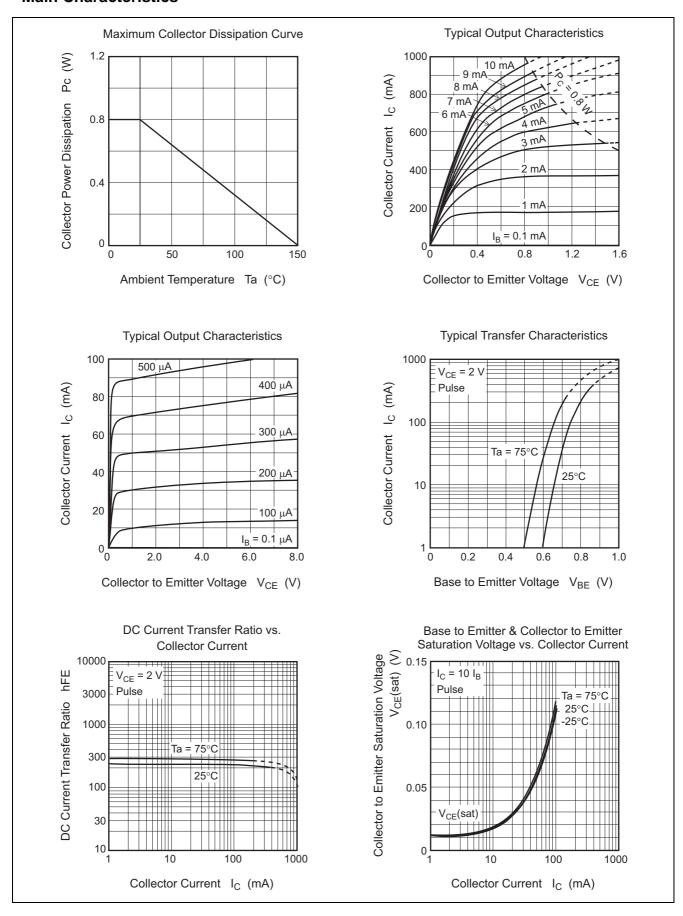
Note: 1. PW \leq 10 ms, Duty cycle \leq 20%

Electrical Characteristics

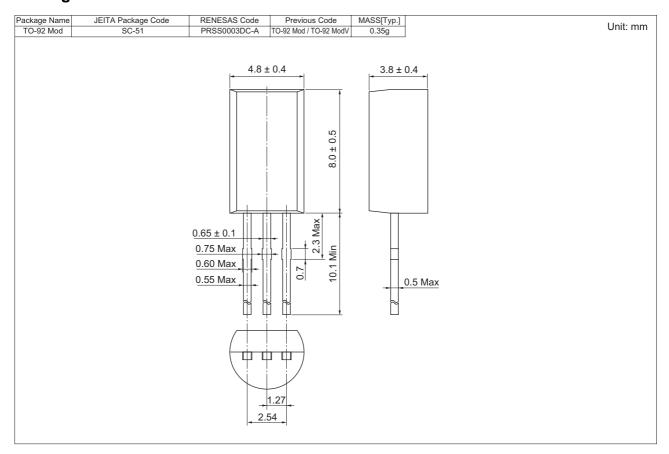
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V _{(BR)CBO}	45	_	_	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	25			٧	I _C = 100 μA, R _{BE} = ∞
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6			>	$I_E = 10 \mu\text{A}, I_C = 0$
Collector cutoff current	I _{CBO}			500	nA	$V_{CB} = 45 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}			500	nA	$V_{EB} = 6 \text{ V}, I_{C} = 0$
DC current transfer ratio	h _{FE1}	45	_	_		$V_{CE} = 1 \text{ V}, I_{C} = 5 \text{ mA}$
	h _{FE2}	85		330	l	$V_{CE} = 1 \text{ V}, I_{C} = 100 \text{ mA}$
	h _{FE3}	40			l	$V_{CE} = 1 \text{ V}, I_{C} = 800 \text{ mA}$
Collector to emitter saturation voltage	V _{CE(sat)}			0.5	>	I_C = 800 mA, I_B = 80 mA
Base to emitter voltage	V_{BE}	_		1.0	V	$V_{CE} = 1 \text{ V}, I_{C} = 10 \text{ mA}$
Base to emitter saturation voltage	V _{BE(sat)}	_	_	1.2	V	I _C = 800 mA, I _B = 80 mA

Main Characteristics



Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container	Remarks
HIT468-EQ	2500 pcs.	Bulk, Vinyl Bag	PB free product
HIT468-TZ-EQ	2500 pcs.	Hold Box, Radial Taping	
HIT468-HQ	2500 pcs.	Bulk, Vinyl Bag	Halogen free & PB free product
HIT468-TZ-HQ	2500 pcs.	Hold Box, Radial Taping	

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

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- Renesas lechnology Corp. Sales Strategic Planning Div. Nippon Bldg., 2-6-2, Ohte-machi, Chiyoda-ku, Tokyo 100-0004, Japan Notes:

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