

HIT667

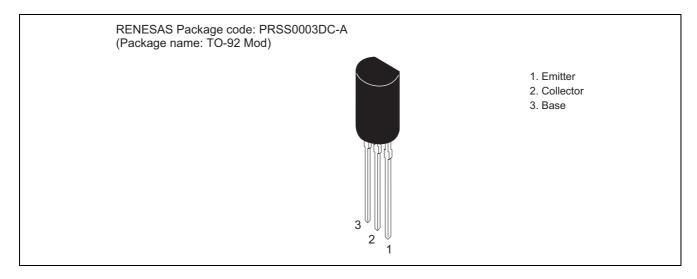
Silicon NPN Epitaxial

REJ03G1505-0200 Rev.2.00 Mar 05, 2007

Features

- Low frequency power amplifier
- Complementary pair with HIT647

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	120	V
Collector to emitter voltage	V_{CEO}	100	V
Emitter to base voltage	V_{EBO}	6	V
Collector current	Ic	1.0	А
Collector peak current	I _{C (peak)} *1	2.0	А
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

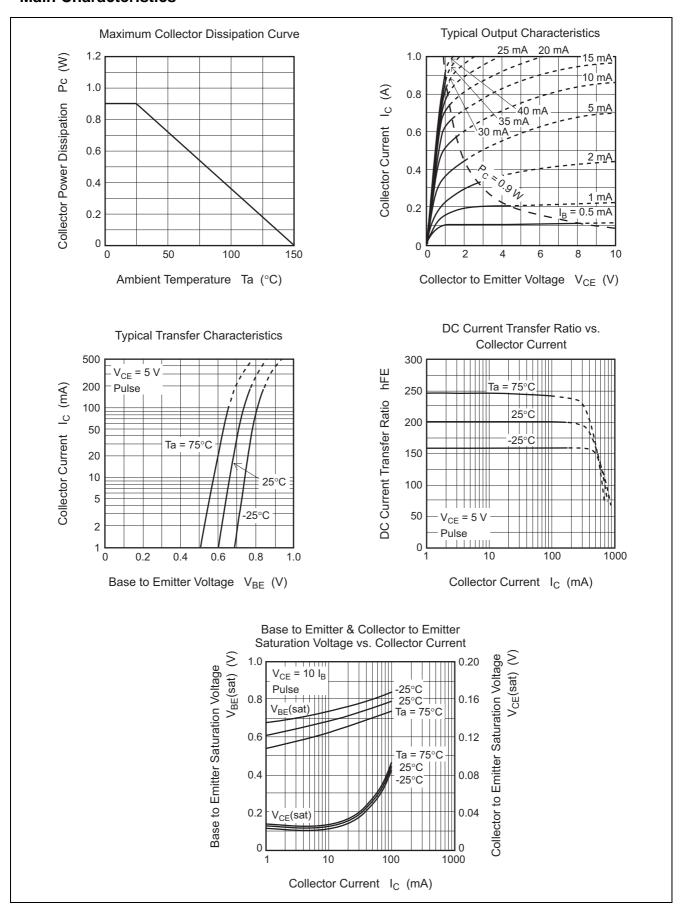
Note : 1. PW \leq 10 ms, Duty cycle \leq 20%

Electrical Characteristics

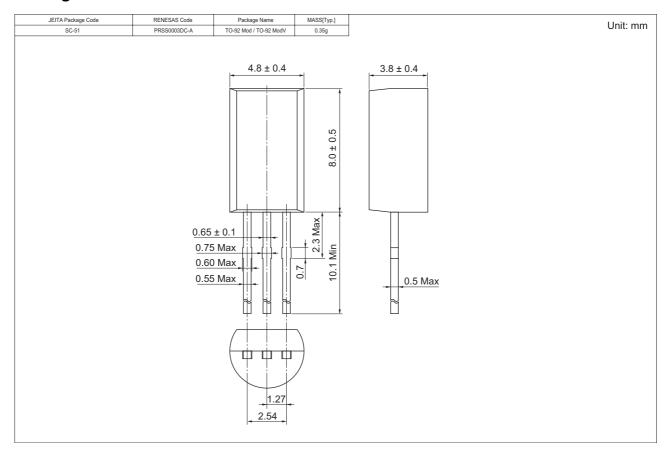
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	120	_	_	V	$I_C = 100 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	100	_	_	V	$I_C = 10 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	6			V	$I_E = 100 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}	1	1	500	nA	$V_{CB} = 120 \text{ V}, I_{E} = 0$
Emitter cutoff current	I _{EBO}	1	1	500	nA	$V_{EB} = 6 \text{ V}, I_{C} = 0$
DC current transfer ratio	h _{FE1}	140	1	330	-	$V_{CE} = 2 \text{ V}, I_{C} = 150 \text{ mA}$
	h _{FE2}	40	1	1	-	$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ A}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	1		0.5	V	$I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$
Base to emitter saturation voltage	$V_{BE(sat)}$	_	_	1.1	V	$I_C = 500 \text{ mA}, I_B = 50 \text{ mA}$

Main Characteristics



Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container	
HIT667-EQ	2500 pcs	Bulk, Vinyl Bag	
HIT667TZ-EQ	2500 pcs	Hold Box, Radial Taping	

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

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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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