

HIT667

R07DS0450EJ0400 (Previous: REJ03G1505-0300)

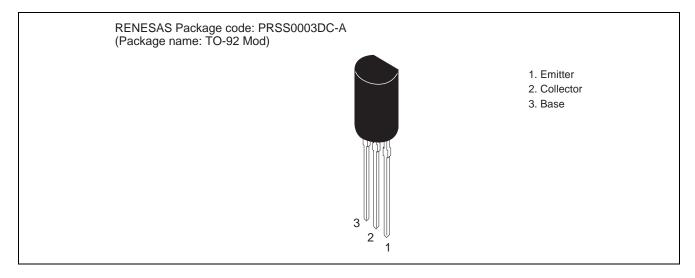
Rev.4.00 Jun 14, 2011

Silicon NPN Epitaxial

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	Α
Collector peak current	I _{C (peak)} *1	2.0	Α
Collector power dissipation	Pc	0.9	W
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

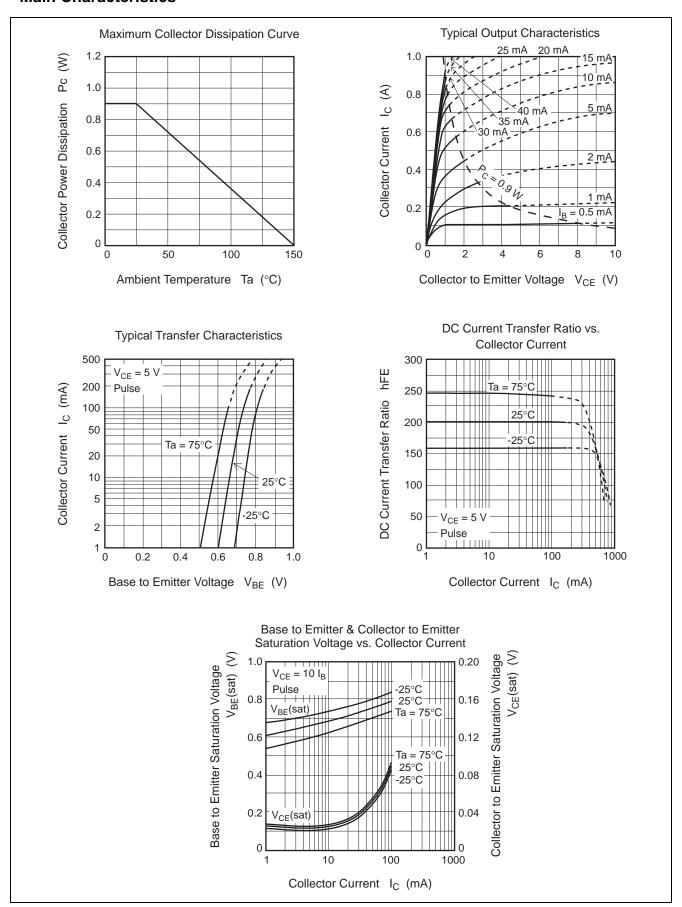
Note: 1. $PW \le 10 \text{ ms}$, Duty cycle $\le 20\%$

Electrical Characteristics

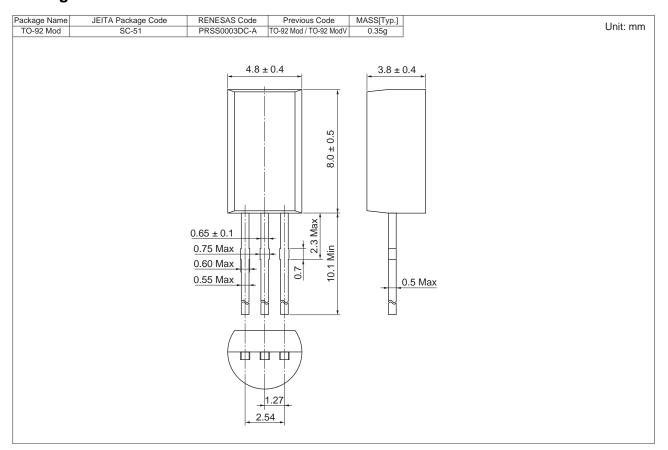
 $(Ta = 25^{\circ}C)$

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}	_	_	500	nA	$V_{CB} = 120 \text{ V}, I_E = 0$
Emitter cutoff current	I _{EBO}	_	_	500	nA	$V_{EB} = 6 \text{ V}, I_{C} = 0$
DC current transfer ratio	h _{FE1}	140	_	330	_	$V_{CE} = 2 \text{ V}, I_{C} = 150 \text{ mA}$
	h _{FE2}	40	_	_	_	$V_{CE} = 5 \text{ V}, I_{C} = 1 \text{ A}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	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

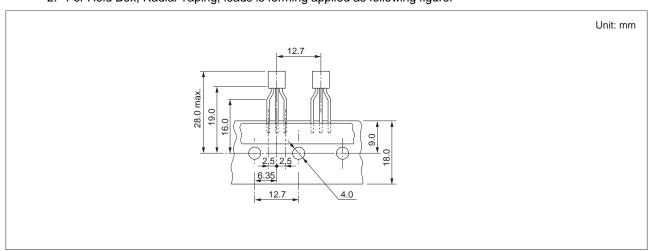


Ordering Information

Orderable Part Number	Quantity	Shipping Container	Remarks
HIT667-EQ	2500 pcs.	Bulk, Vinyl Bag	PB free product
HIT667-TZ-EQ	2500 pcs.	Hold Box, Radial Taping	
HIT667-HQ	2500 pcs.	Bulk, Vinyl Bag	Halogen free & PB free
HIT667-TZ-HQ	2500 pcs.	Hold Box, Radial Taping	product

Notes: 1. This product is designed for consumer use and not for automotive or industrial use.

2. For Hold Box, Radial Taping, leads is forming applied as following figure.



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