

HIT647

R07DS0449EJ0400 (Previous: REJ03G1504-0300)

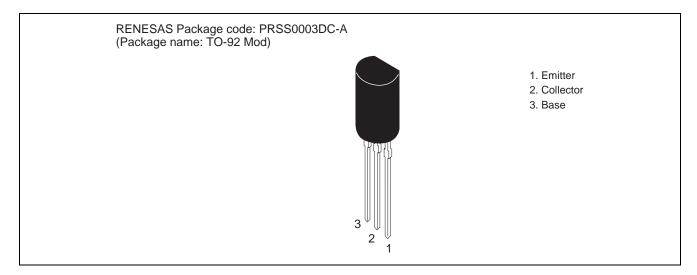
Rev.4.00 Jun 14, 2011

Silicon PNP Epitaxial

Features

- Low frequency power amplifier
- Complementary pair with HIT667

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	A
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

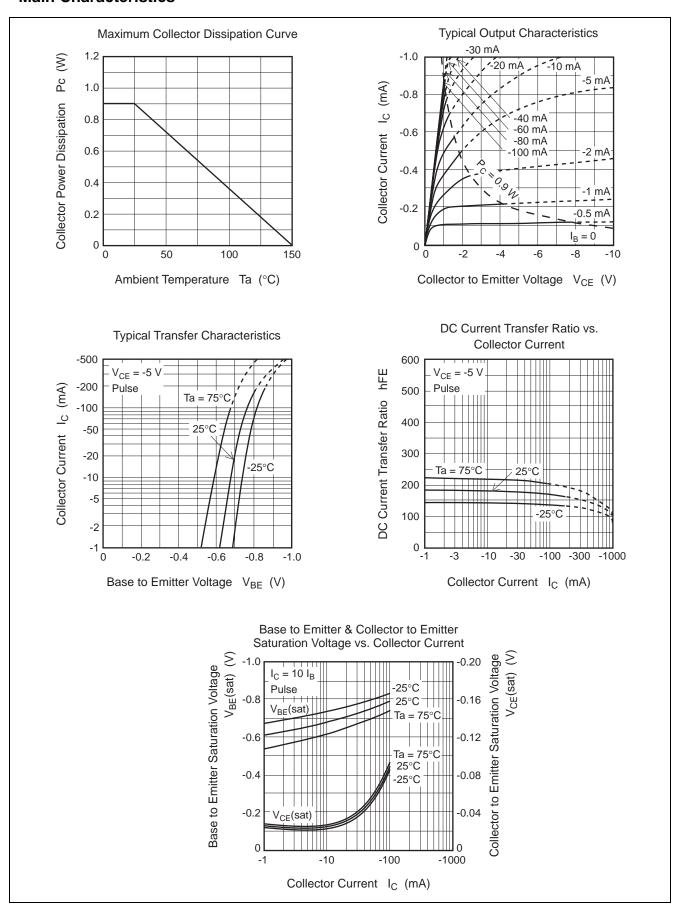
Note: 1. $PW \le 10 \text{ ms}$, Duty cycle $\le 20\%$

Electrical Characteristics

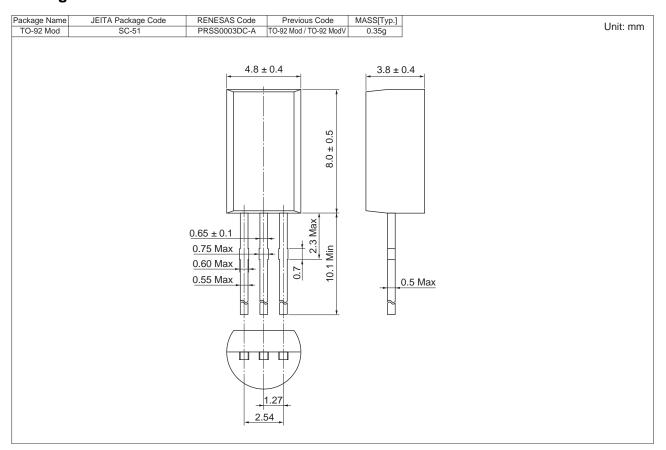
 $(Ta = 25^{\circ}C)$

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	$I_C = -10$ 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		350		$V_{CE} = -2 \text{ V}, I_{C} = -150 \text{ mA}$
	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

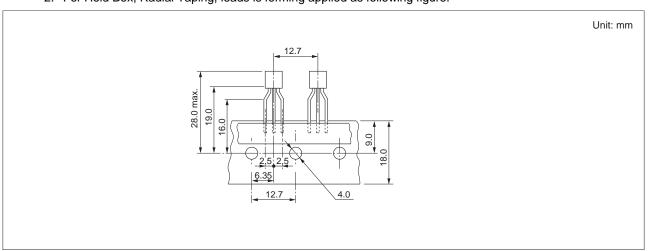


Ordering Information

Orderable Part Number	Quantity	Shipping Container	Remarks
HIT647-EQ	2500 pcs.	Bulk, Vinyl Bag	PB free product
HIT647-TZ-EQ	2500 pcs.	Hold Box, Radial Taping	
HIT647-HQ	2500 pcs.	Bulk, Vinyl Bag	Halogen free & PB free product
HIT647-TZ-HQ	2500 pcs.	Hold Box, Radial Taping	

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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