

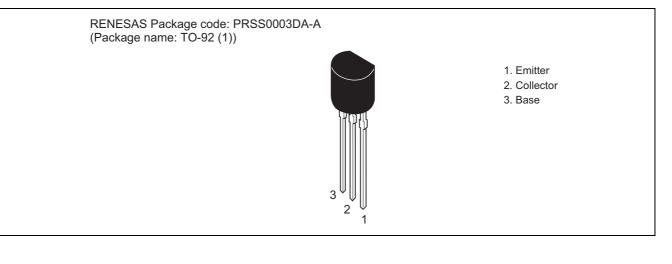
Silicon NPN Epitaxial

REJ03G1611-0100 Rev.1.00 Nov 28, 2007

Features

- Low frequency power amplifier
- Complementary pair with HIT8550-N

Outline



Absolute Maximum Ratings

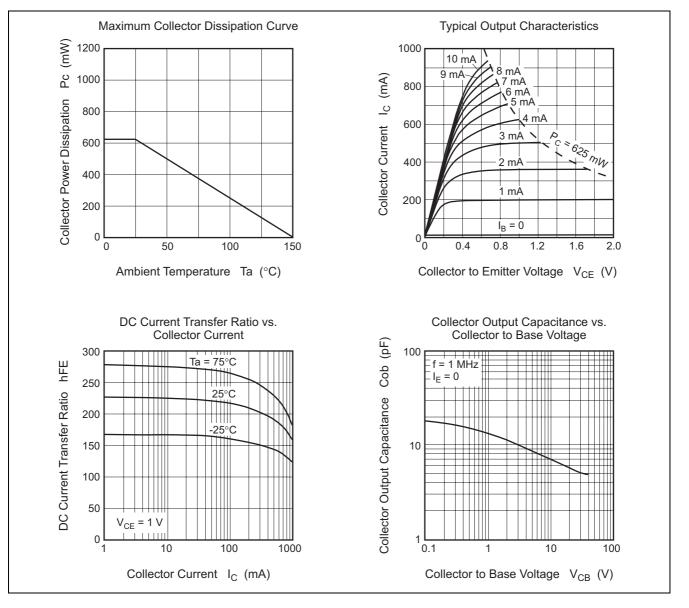
			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	45	V
Collector to emitter voltage	V _{CEO}	25	V
Emitter to base voltage	V _{EBO}	6	V
Collector current	Ι _C	0.7	A
Collector peak current	I _{C (peak)} Note	1.0	A
Collector power dissipation	Pc	0.625	W
Junction temperature	Tj	150	۵°
Storage temperature	Tstg	–55 to +150	°C

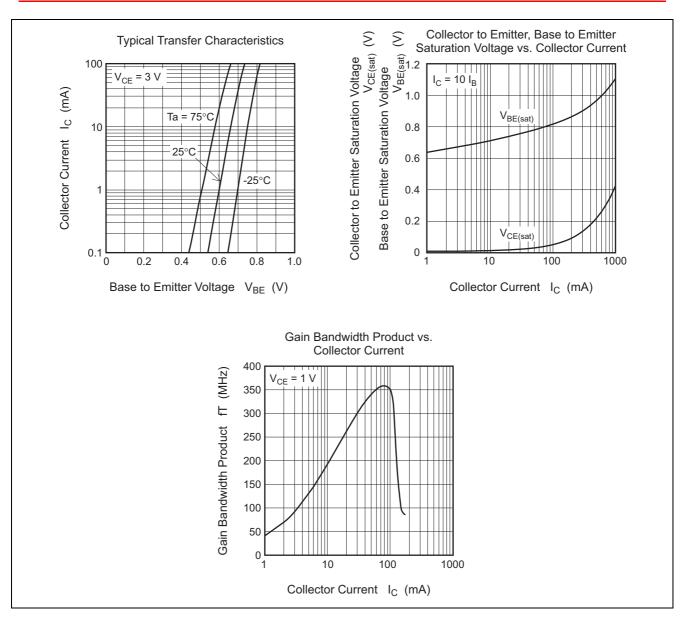
Note: $PW \le 10 \text{ ms}$, $Duty cycle \le 20\%$

Electrical Characteristics

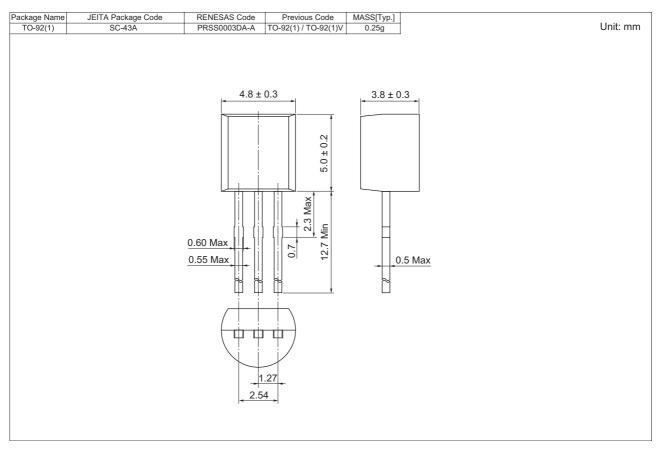
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min.	Тур	Max.	Unit	Test Conditions
Collector to base breakdown voltage	V _{(BR)CBO}	45	_	_	V	$I_{\rm C}$ = 10 μ A, $I_{\rm E}$ = 0
Collector to emitter breakdown voltage	V _{(BR)CEO}	25	_	_	V	I _C = 1 mA, R _{BE} = ∞
Emitter to base breakdown voltage	V _{(BR)EBO}	6	_	_	V	I _E = 10 μA, 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 V
DC current transfer ratio	h _{FE1}	45	_	_	_	V _{CE} = 1 V, I _C = 5 mA
DC current transfer ratio	h _{FE2}	85	_	330	_	V _{CE} = 1 V, I _C = 100 mA
Collector to emitter saturation voltage	V _{CE(sat)}	_		0.5	V	I _C = 500 mA, I _B = 50 mA
Base to emitter voltage	V _{BE(on)}	—	—	1.0	V	V_{CE} = 3 V, I_{C} = 10 mA

Main Characteristics





Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
HIT8050-N-EQ	2500 pcs.	Bulk, Vinyl Bag
HIT8050-N-TZ-EQ	2500 pcs.	Hold Box, Radial Taping

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

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