

2SC2610

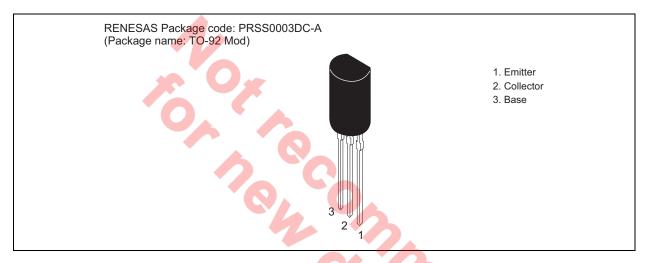
Silicon NPN Triple Diffused

REJ03G0700-0200 (Previous ADE-208-1068) Rev.2.00 Aug.10.2005

Application

- High voltage amplifier
- TV Video output

Outline



Absolute Maximum Ratings

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

Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	300	V
Collector to emitter voltage	V _{CEO}	300	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	Ic	100	mA
Collector power dissipation	P _C	800	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

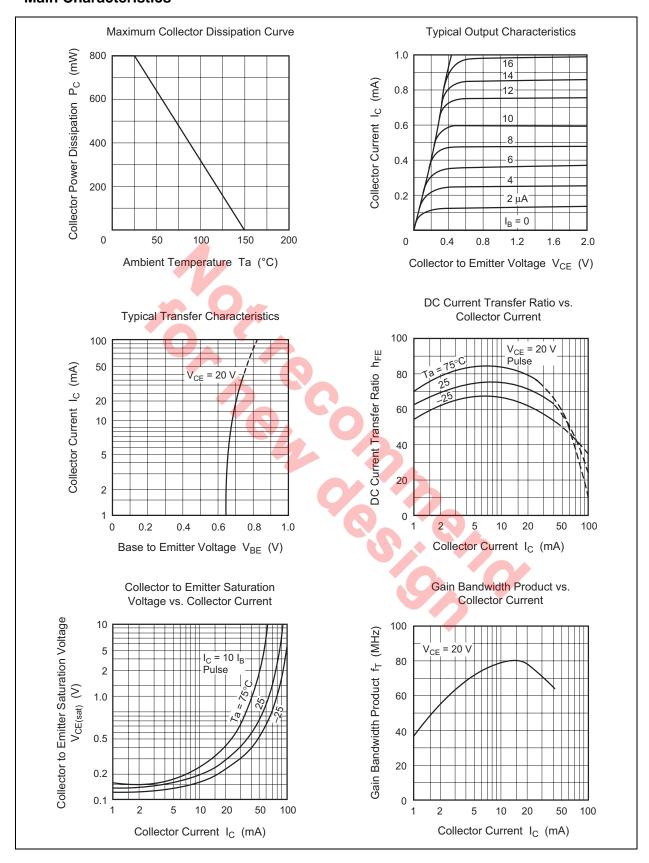
Electrical Characteristics

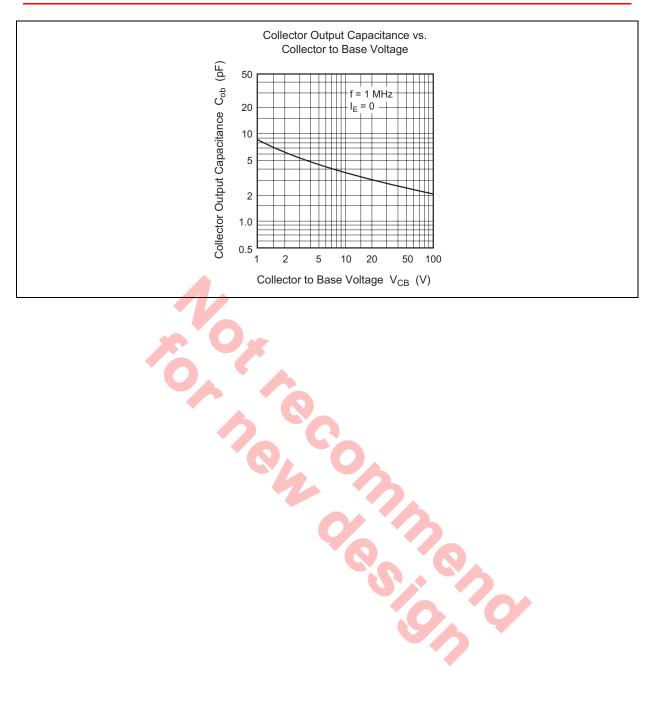
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	$V_{(BR)CBO}$	300	_	_	V	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	$V_{(BR)CEO}$	300	_	_	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	V _{(BR)EBO}	5	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I _{CEO}	_	_	1.0	μΑ	V _{CE} = 250 V, R _{BE} = ∞
DC current transfer ratio	h _{FE}	30	_	200		$V_{CE} = 20 \text{ V}, I_{C} = 20 \text{ mA}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	_	1.5	V	$I_C = 20 \text{ mA}, I_B = 2 \text{ mA}$
Gain bandwidth product	f⊤	50	80	_	MHz	V _{CE} = 20 V, I _C = 20 mA
Collector output capacitance	Cob	_	_	4.0	pF	V _{CB} = 20 V, I _E = 0, f = 1 MHz

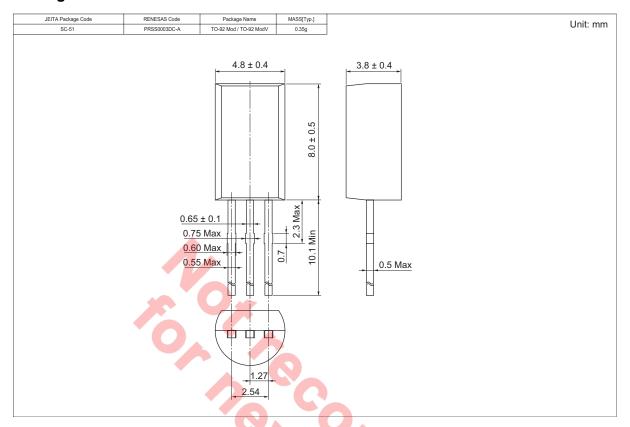


Main Characteristics





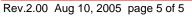
Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC2610TZ-E	2500	Hold Box, Radial Taping

Note: For some grades, production may be terminated. Please contact the Renesas sales office to check the state of production before ordering the product.



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