

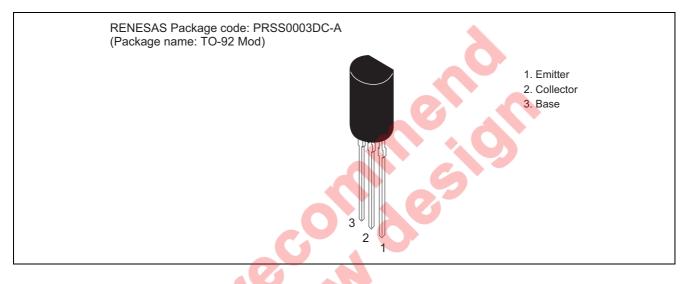
Silicon NPN Epitaxial

REJ03G0724-0200 (Previous ADE-208-1105) Rev.2.00 Aug.10.2005

Application

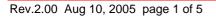
High Frequency amplifier

Outline



Absolute Maximum Ratings

			$(Ta = 25^{\circ}C)$
Item	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	30	V
Collector to emitter voltage	V _{CEO}	20	V
Emitter to base voltage	V _{EBO}	3	V
Collector current	Ι _C	100	mA
Collector peak current	i _{C (peak)}	200	mA
Collector power dissipation	Pc	600	mW
Junction temperature	Тј	150	°C
Storage temperature	Tstg	-55 to +150	°C



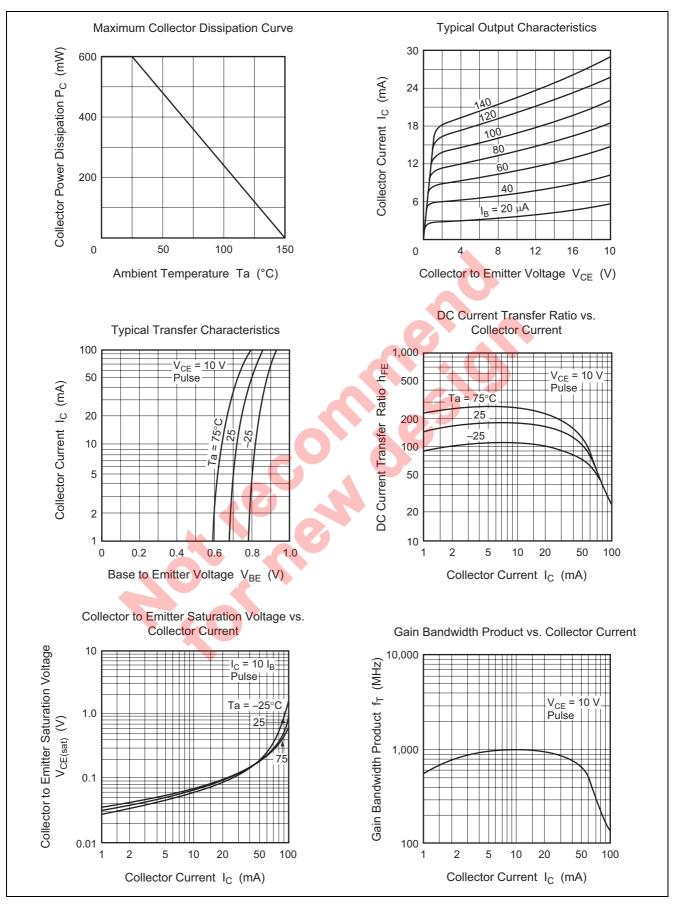


Electrical Characteristics

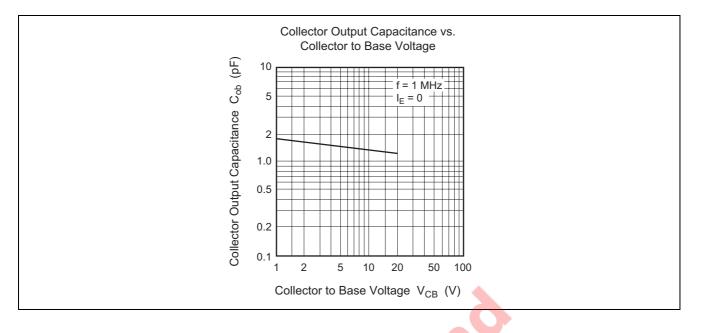
						$(Ta = 25^{\circ}C)$
Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V _{(BR)CBO}	30	—		V	$I_{C} = 10 \ \mu A, \ I_{E} = 0$
Collector to emitter breakdown voltage	V _{(BR)CEO}	20	_		V	$I_C = 3 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	V _{(BR)EBO}	3	—		V	$I_E = 10 \ \mu A, \ I_C = 0$
Collector cutoff current	I _{CBO}	_	—	1.0	μA	$V_{CB} = 10 \text{ V}, I_E = 0$
DC current transfer ratio	h _{FE}	40	—			$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$
Collector to emitter saturation voltage	V _{CE(sat)}	—	_	1.0	V	$I_{C} = 20 \text{ mA}, I_{B} = 4 \text{ mA}$
Gain bandwidth product	f⊤	600	1000		MHz	$V_{CE} = 10 \text{ V}, I_{C} = 10 \text{ mA}$
Collector output capacitance	Cob	—	1.3	_	pF	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$



Main Characteristics

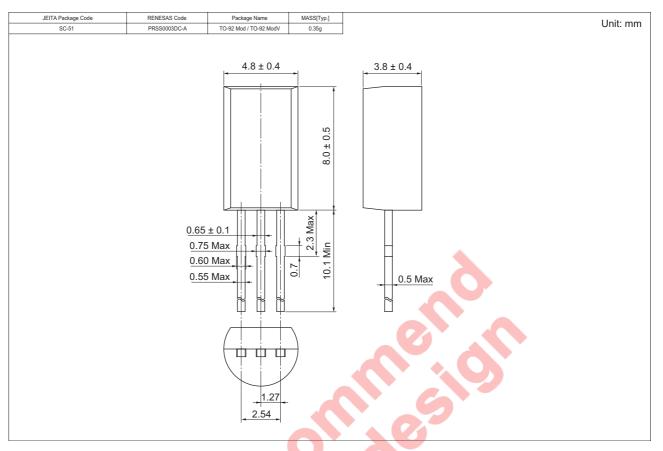








Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC4367TZ-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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