

2SA893A

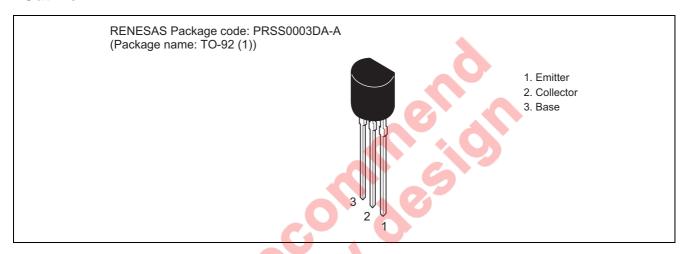
Silicon PNP Epitaxial

REJ03G0632-0200 (Previous ADE-208-1002) Rev.2.00 Aug.10.2005

Application

- Low frequency high voltage amplifier
- Complementary pair with 2SC1890A

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}	-120	V
Emitter to base voltage	V_{EBO}	- 5	V
Collector current	Ic	-50	mA
Collector power dissipation	P _C	300	mW
Junction temperature	Tj	150	°C
Storage temperature	Tstg	-55 to +150	°C

Electrical Characteristics

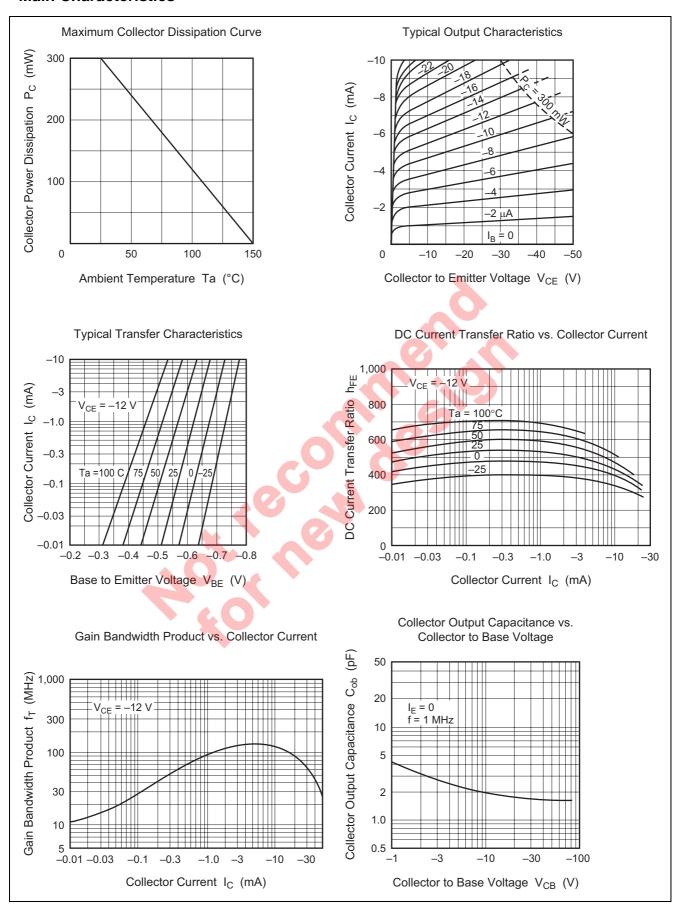
 $(Ta = 25^{\circ}C)$

Item	Symbol	Min	Тур	Max	Unit	Test conditions
Collector to emitter breakdown voltage	V _{(BR)CEO}	-120	_	_	V	$I_C = -1 \text{ mA}, R_{BE} = \infty$
Collector cutoff current	I _{CBO}	_	_	_	μΑ	$V_{CB} = -75 \text{ V}, I_{E} = 0$
		_	_	-0.5	μΑ	$V_{CB} = -100 \text{ V}, I_E = 0$
DC current transfer ratio	h _{FE} *1	250	_	800		$V_{CE} = -12 \text{ V},$
						$I_C = -2 \text{ mA}$
Base to emitter voltage	V_{BE}	_	_	-0.75	V	$V_{CE} = -12 \text{ V},$
						$I_C = -2 \text{ mA}$
Collector to emitter saturation voltage	$V_{CE(sat)}$	_	_	-0.5	V	$I_C = -10 \text{ mA},$
						$I_B = -1 \text{ mA}$
Gain bandwidth product	f _T	_	120	_	MHz	$V_{CE} = -12 \text{ V},$
						$I_C = -2 \text{ mA}$
Collector output capacitance	Cob	_	1.8	_	pF	$V_{CB} = -25 \text{ V}, I_E = 0,$
						f = 1 MHz
Noise figure	NF	_	2	10	dB	$V_{CE} = -6 V$,
						$I_C = -50 \mu A$
						$R_g = 50 \text{ k}\Omega, f = 1 \text{ kHz}$
			96			

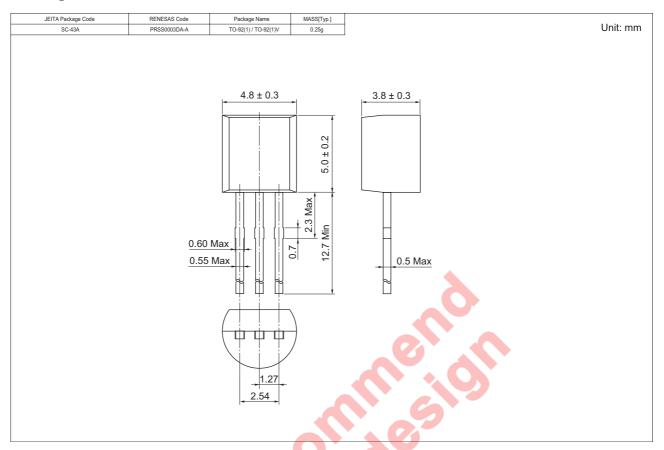
Note: 1. The 2SA893A is grouped by hFE as follows.

D	E
250 to 500	400 to 800

Main Characteristics



Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SA893ADTZ	2500	Hold Box, Radial Taping
2SA893AETZ		

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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