

2SC1213, 2SC1213A

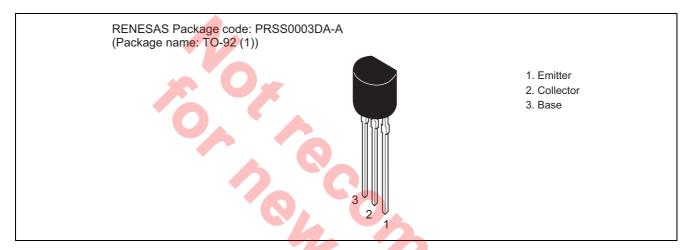
Silicon NPN Epitaxial

REJ03G0684-0200 (Previous ADE-208-1048) Rev.2.00 Aug.10.2005

Application

- Low frequency amplifier
- Complementary pair with 2SA673 and 2SA673A

Outline



Absolute Maximum Ratings

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

Item	Symbol	2SC1213	2SC1213A	Unit
Collector to base voltage	V _{CBO}	35	50	V
Collector to emitter voltage	V _{CEO}	35	50	V
Emitter to base voltage	V _{EBO}	4	4	V
Collector current	Ic	500	500	mA
Collector power dissipation	Pc	400	400	mW
Junction temperature	Tj	150	150	°C
Storage temperature	Tstg	-55 to +150	-55 to +150	°C

Electrical Characteristics

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

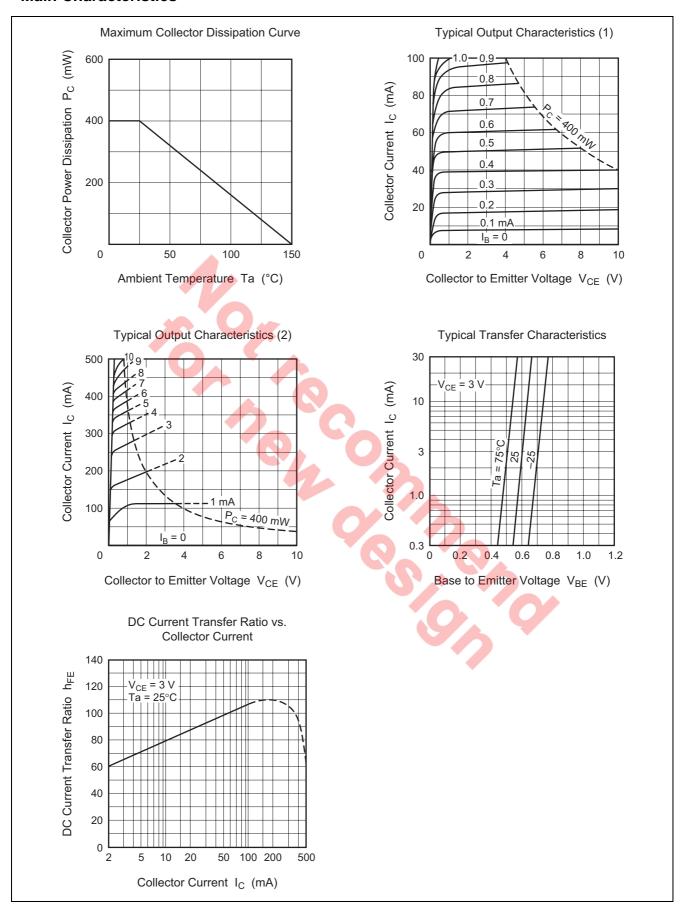
		;	2SC1213	3	2	SC1213	A		
Item	Symbol	Min	Тур	Max	Min	Тур	Max	Unit	Test conditions
Collector to base breakdown voltage	V _{(BR)CBO}	35	_		50	_	1	٧	$I_C = 10 \mu A, I_E = 0$
Collector to emitter breakdown voltage	V _{(BR)CEO}	35	_	_	50	_	_	V	$I_C = 1 \text{ mA}, R_{BE} = \infty$
Emitter to base breakdown voltage	$V_{(BR)EBO}$	4	_	_	4	_	_	V	$I_E = 10 \mu A, I_C = 0$
Collector cutoff current	I _{CBO}		_	0.5	_		0.5	μΑ	$V_{CB} = 20 \text{ V}, I_{E} = 0$
DC current transfer ratio	h _{FE} *1	60	_	320	60	_	320		$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$
	h _{FE}	10	_	_	10		_		$V_{CE} = 3 \text{ V},$ $I_{C} = 500 \text{ mA}^{*2}$
Collector to emitter saturation voltage	V _{CE(sat)}	_	0.2	0.6	_	0.2	0.6	V	I _C = 150 mA, I _B = 15 mA* ²
Base to emitter voltage	V_{BE}		0.64	_	_	0.64	_	V	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$

Notes: 1. The 2SC1213 and 2SC1213A are grouped by hFE as follows.

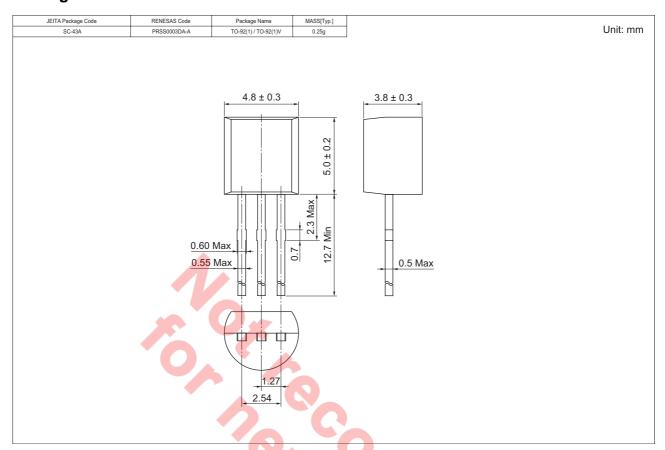
2. Pulse test

2. Pt	lise test		
В	С	D	X
60 to 120	100 to 200	160 to 320	
			"hand
			CO. CO
			6,0

Main Characteristics



Package Dimensions



Ordering Information

Part Name	Quantity	Shipping Container
2SC1213CTZ-E	2500	Hold Box, Radial Taping
2SC1213DTZ-E		
2SC1213ABTZ-E		
2SC1213ACTZ-E		
2SC1213ADTZ-E		

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