

## 2SC1213, 2SC1213A

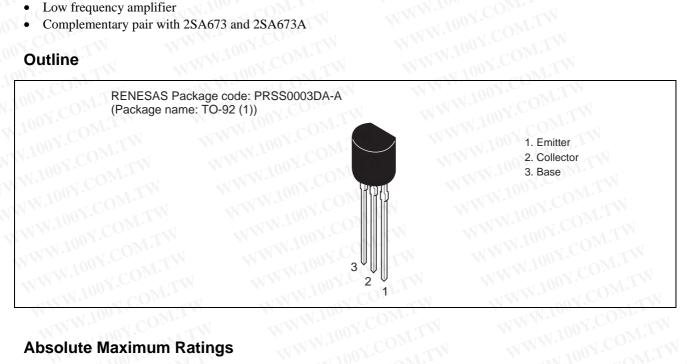
## Silicon NPN Epitaxial

WWW.100Y.COM.TW REJ03G0684-0200 (Previous ADE-208-1048) Rev.2.00 Aug.10.2005

# V.100Y.COM.TW **Application**

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

#### **Outline**



#### **Absolute Maximum Ratings**

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Item	Symbol	2SC1213	2SC1213A	Unit
Collector to base voltage	V <sub>CBO</sub>	35	50	N. TOO V. CON
Collector to emitter voltage	V <sub>CEO</sub>	35	50	10V
Emitter to base voltage	V <sub>EBO</sub>	4	4	V
Collector current	l <sub>c</sub>	500	500	mA
Collector power dissipation	Pc	400	400	mW
Junction temperature	Tj W	150	150	°C
Storage temperature	Tstg (	-55 to +150	-55 to +150	0 °C

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#### **Electrical Characteristics**

	- 7		2SC1213	3		2SC1213	Α	≪T	(Ta = 25	
ltem	Symbol	Min	Тур	Max	Min	Тур	Max	Unit	Test conditions	
Collector to base breakdown voltage	V <sub>(BR)CBO</sub>	35		-1/	50	10 <del>0</del> 7.	COM.	V	$I_C = 10 \ \mu\text{A}, \ I_E = 0$	
Collector to emitter breakdown voltage	V <sub>(BR)CEO</sub>	35	WT.	_	50	100°		V	$I_C = 1 \text{ mA}, R_{BE} = \infty$	
Emitter to base breakdown voltage	V <sub>(BR)EBO</sub>	4	M.T.W	<u> </u>	4	VV.100	VY CO	MY	$I_E = 10  \mu A,  I_C = 0$	
Collector cutoff current	I <sub>CBO</sub>	0 7.	W.T.	0.5		11.W	0.5	μΑ	V <sub>CB</sub> = 20 V, I <sub>E</sub> = 0	
DC current transfer ratio	h <sub>FE</sub> *1	60	<del>-</del> <del>-</del> 1	320	60		320	Mo	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$	
	h <sub>FE</sub>	107.	$CO_{\overline{M}}$	TW	10	MAN N	100 J	$co_N$	$V_{CE} = 3 \text{ V},$ $I_{C} = 500 \text{ mA*}^{2}$	
Collector to emitter saturation voltage	V <sub>CE(sat)</sub>	1.1 <del>0</del> 0.3	0.2	0.6	_	0.2	0.6	y.00	$I_C = 150 \text{ mA},$ $I_B = 15 \text{ mA}^{*2}$	
Base to emitter voltage	$V_{BE}$	11-10	0.64	Ar.	I —	0.64	Mis	V	$V_{CE} = 3 \text{ V}, I_{C} = 10 \text{ mA}$	

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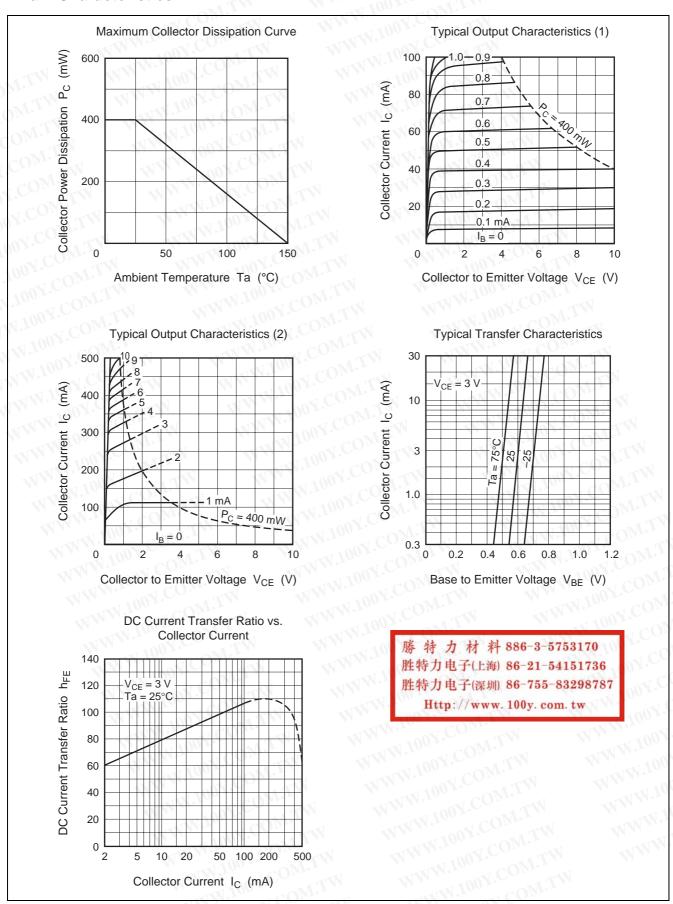
В	C	D	D
60 to 120	100 to 200	160 to 320	320

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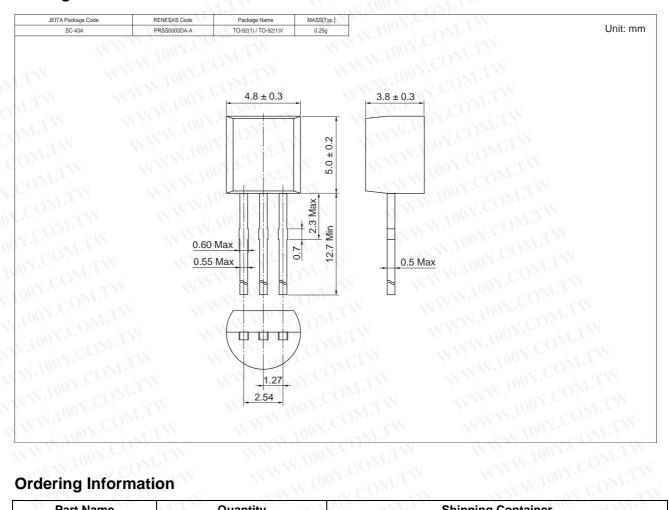
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#### **Main Characteristics**



### **Package Dimensions**



### **Ordering Information**

Part Name	Quantit	tv	Shipping Container
2SC1213CTZ-E 2SC1213DTZ-E	2500	Hold Box, Radial	
2SC1213ABTZ-E	COM	COM	
2SC1213ACTZ-E	Y.Com.TW	WWW.100X.COM	
2SC1213ADTZ-E	ON COL	M.W. COX.CO.	

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