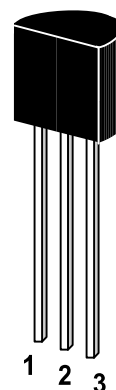


ST 2SC5344

NPN Silicon Epitaxial Planar Transistor
Audio power amplifier applications.

The transistor is subdivided into two groups O and Y according to its DC current gain.

On special request, these transistors can be manufactured in different pin configurations.



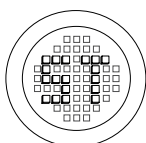
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

Absolute Maximum Ratings ($T_a = 25^\circ\text{C}$)

	Symbol	Value	Unit
Collector Base Voltage	V_{CBO}	35	V
Collector Emitter Voltage	V_{CEO}	30	V
Emitter Base Voltage	V_{EBO}	5	V
Collector Current	I_C	800	mA
Collector Dissipation	P_{tot}	625	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature	T_s	-55 to +150	$^\circ\text{C}$

G S P FORM A IS AVAILABLE



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РАДИОТЕХ

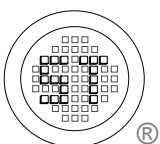
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

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Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

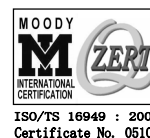
		Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=1\text{V}$, $I_C=100\text{mA}$	O	h_{FE}	100	-	200	-
	Y	h_{FE}	160	-	320	-
Collector-Base Breakdown Voltage at $I_C=100\mu\text{A}$,		V_{CBO}	35	-	-	V
Collector-Emitter Breakdown Voltage at $I_C=10\text{mA}$,		V_{CEO}	30	-	-	V
Emitter-Base Breakdown Voltage at $I_E=10\mu\text{A}$,		V_{EBO}	5	-	-	V
Collector Cut-off Current at $V_{CB}=35\text{V}$,		I_{CBO}	-	-	0.1	μA
Emitter Cut-off Current at $V_{EB}=5\text{V}$,		I_{EBO}	-	-	0.1	μA
Collector-Emitter Saturation Voltage at $I_C=500\text{mA}$, $I_B=50\text{mA}$		$V_{CE(sat)}$	-	-	0.5	V
Transition Frequency at $V_{CE}=5\text{V}$, $I_C=10\text{mA}$		f_T	-	120	-	MHz
Collector Output Capacitance at $V_{CB}=10\text{V}$, $f=1\text{MHz}$,		C_{OB}	-	13	-	pF

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Dated : 08/12/2003

ST 2SC5344

Fig. 1 $P_c - T_a$

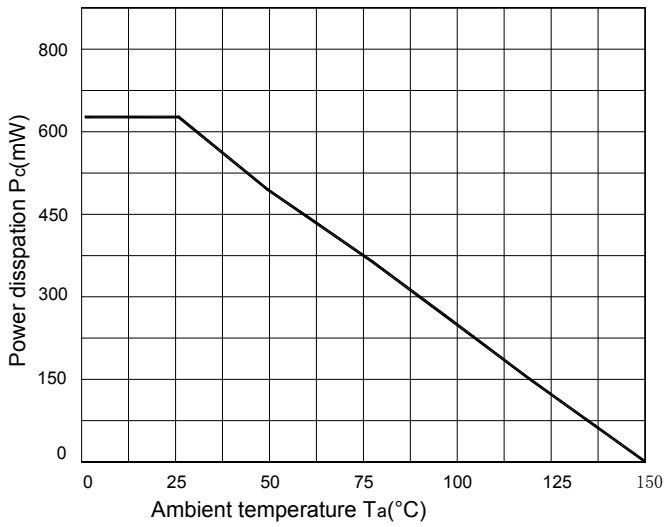


Fig. 2 $I_c - V_{BE}$

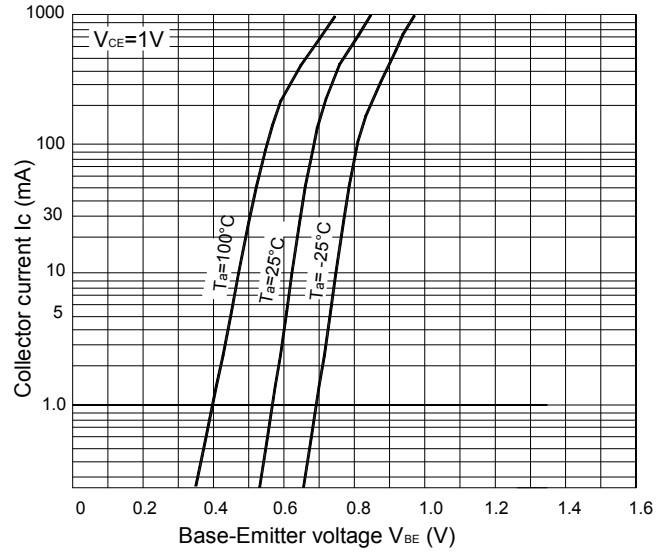


Fig. 3 $I_c - V_{CE}$

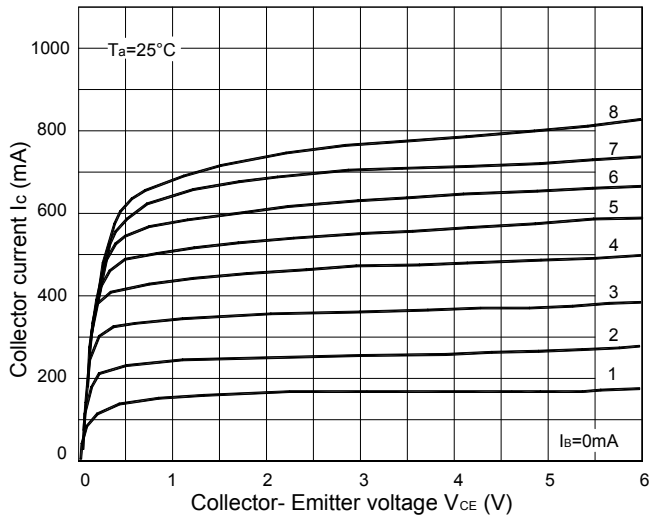


Fig. 4 $V_{CE(sat)} - I_c$

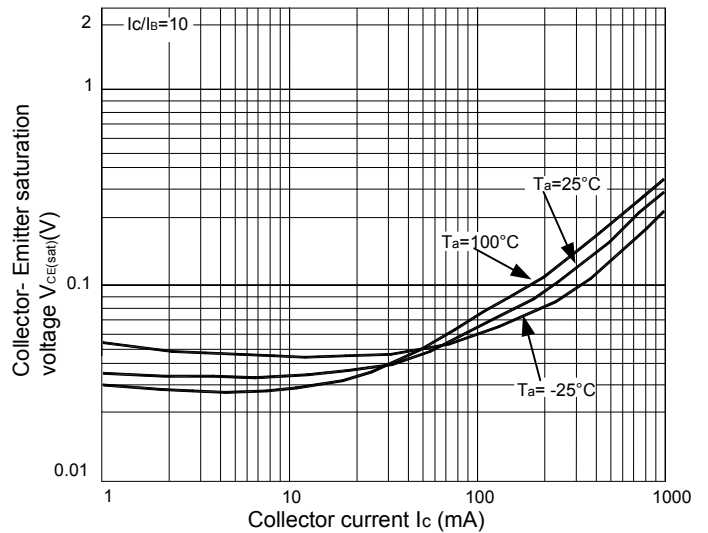
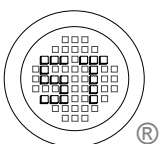
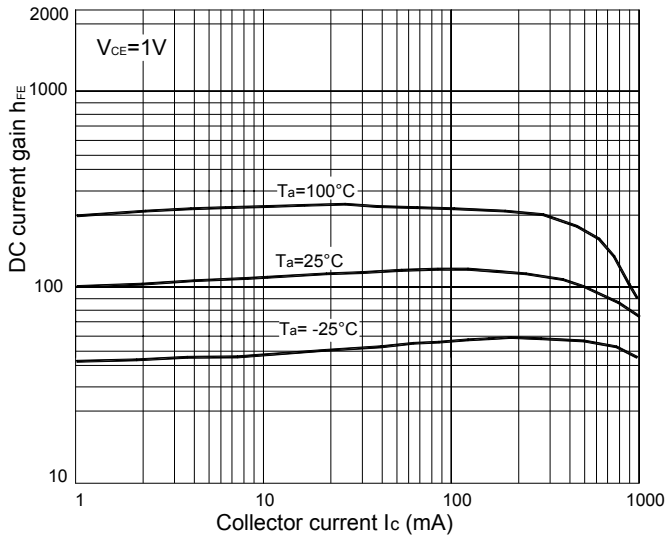
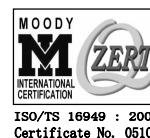


Fig. 5 $h_{FE} - I_c$



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