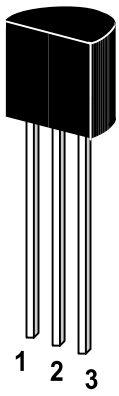
ST 8550 (1.5A)

PNP Silicon Epitaxial Planar Transistor
for switching and amplifier applications. Especially suitable for AF-driver stages and low power output stages.

The transistor is subdivided into two groups, C and D, according to its DC current gain. As complementary type the NPN transistor ST 8050 is recommended.

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



1. Emitter 2. Base 3. Collector

TO-92 Plastic Package
Weight approx. 0.19g

Absolute Maximum Ratings (T_a = 25°C)

	Symbol	Value	Unit
Collector Emitter Voltage	$-V_{CEO}$	25	V
Collector Base Voltage	$-V_{CBO}$	40	V
Emitter Base Voltage	$-V_{EBO}$	6	V
Collector Current	$-I_C$	1	A
Peak Collector Current	$-I_{CM}$	1.5	A
Base Current	$-I_B$	100	mA
Power Dissipation	P_{tot}	1	W
Junction Temperature	T_j	150	°C
Storage Temperature Range	T_S	-55 to +150	°C

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РАДИОТЕХ

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

ST 8550 (1.5A)

Characteristics at T_{amb}=25 ^{O}C

		Symbol	Min.	Typ.	Max.	Unit
DC Current Gain						
at $-V_{CE}$=1V, $-I_C$=5mA		h_{FE}	45	170	-	
at $-V_{CE}$=1V, $-I_C$=100mA	8550C	h_{FE}	120	-	200	-
	8550D	h_{FE}	160	-	300	-
at V_{CE}=1V, I_C=800mA		h_{FE}	40	80	-	
Collector Cutoff Current						
at $-V_{CB}$=35V		$-I_{CBO}$	-	-	100	nA
Emitter Cutoff Current						
at $-V_{BE}$=6V		$-I_{EBO}$	-	-	100	nA
Collector Saturation Voltage						
at $-I_C$=800mA, $-I_B$=80mA		$-V_{CE(sat)}$	-	0.28	0.5	V
Base Saturation Voltage						
at $-I_C$=800mA, $-I_B$=80mA		$-V_{BE(sat)}$	-	0.98	1.2	V
Collector Emitter Breakdown Voltage						
at $-I_C$=2mA		$-V_{(BR)CEO}$	25	-	-	V
Collector Base Breakdown Voltage						
at $-I_C$=100μA		$-V_{(BR)CBO}$	40	-	-	V
Emitter Base Breakdown Voltage						
at $-I_E$=100μA		$-V_{(BR)EBO}$	6	-	-	V
Base Emitter Voltage						
at $-I_C$=10mA, $-V_{CE}$=1V		$-V_{BE}$	-	0.66	1	V
Gain Bandwidth Product						
at $-V_{CE}$=10V, $-I_C$=50mA		f_T	120	200	-	MHz
Collector Base Capacitance						
at $-V_{CB}$=10V, f=1MHz		C_{OB}	-	15	-	pF

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