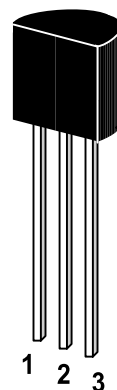


ST 8550 (1.5A)

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.



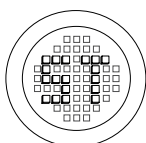
1. Emitter 2. Base 3. Collector

TO-92 Plastic Package
Weight approx. 0.19g

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

	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	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^\circ\text{C}$

G S P FORM A IS AVAILABLE



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РАДИОТЕХ-ТРЕЙД

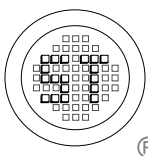
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

ST 8550 (1.5A)

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

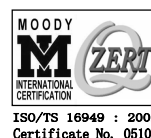
	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain					
at $-V_{CE}=1\text{V}$, $-I_C=5\text{mA}$	h_{FE}	45	170	-	
at $-V_{CE}=1\text{V}$, $-I_C=100\text{mA}$	h_{FE}	120	-	200	-
at $V_{CE}=1\text{V}$, $I_C=800\text{mA}$	h_{FE}	160	-	300	-
at $V_{CE}=1\text{V}$, $I_C=800\text{mA}$	h_{FE}	40	80	-	
Collector Cutoff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

G S P FORM A IS AVAILABLE



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001
Certificate No. 7116



ISO 9001 : 2000
Certificate No. 0507-0004-0004

Dated : 07/12/2002