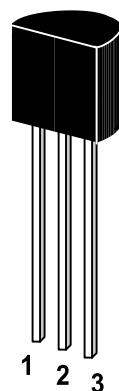


# ST 2SC536

NPN Silicon Epitaxial Planar Transistor  
for switching and AF amplifier applications.

The transistor is subdivided into four groups, O, Y, G and L, according to its DC current gain.

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



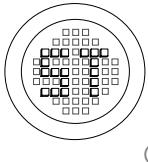
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package  
Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector Base Voltage	$V_{CBO}$	40	V
Collector Emitter Voltage	$V_{CEO}$	30	V
Emitter Base Voltage	$V_{EBO}$	5	V
Collector Current	$I_C$	100	mA
Base Current	$I_B$	50	mA
Power Dissipation	$P_{tot}$	400	mW
Junction Temperature	$T_j$	125	$^\circ\text{C}$
Storage Temperature Range	$T_s$	-55 to +125	$^\circ\text{C}$

G S P FORM A IS AVAILABLE



РАДИОТЕХ-ТРЕЙД

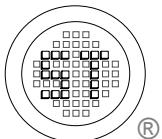
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Факс: (495) 234-1603  
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Веб: www.rct.ru

# ST 2SC536

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

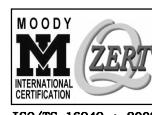
	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=6\text{V}$ , $I_C=1\text{mA}$					
Current Gain Group O	$h_{FE}$	70	-	140	-
Y	$h_{FE}$	120	-	240	-
G	$h_{FE}$	200	-	400	-
L	$h_{FE}$	350	-	700	-
at $V_{CE}=6\text{V}$ , $I_C=150\text{mA}$	$h_{FE}$	25	100	-	-
Collector Emitter Saturation Voltage at $I_C=50\text{mA}$ , $I_B=5\text{mA}$	$V_{CE(sat)}$	-	-	0.5	V
Base Emitter Saturation Voltage at $I_C=50\text{mA}$ , $I_B=5\text{mA}$	$V_{BE(sat)}$	-	-	1.2	V
Collector Cutoff Current at $V_{CB}=35\text{V}$	$I_{CBO}$	-	-	0.1	$\mu\text{A}$
Emitter Cutoff Current at $V_{EB}=5\text{V}$	$I_{EBO}$	-	-	0.1	$\mu\text{A}$
Transition Frequency at $V_{CE}=10\text{V}$ , $I_E=1\text{mA}$	$f_T$	100	-	-	MHz
Collector Output Capacitance at $V_{CB}=10\text{V}$ , $f=1\text{MHz}$	$C_{OB}$	-	2	3.5	pF
Base Intrinsic Resistance at $V_{CB}=10\text{V}$ $I_C=1\text{mA}$ , $f=30\text{MHz}$	$R_{bb'}$	-	50	-	$\Omega$
Noise Figure at $V_{CE}=6\text{V}$ , $I_C=0.1\text{mA}$ $f=1\text{KHz}$ , $R_G=10\text{K}\Omega$	NF	-	1	10	dB

**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 14001  
Certificate No. 7116



ISO 9001 : 2000  
Certificate No. 7116



Dated : 07/12/2002