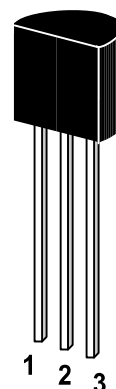


# ST 2SC3199

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.



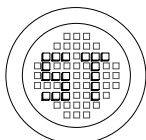
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package  
Weight approx. 0.19g

## Absolute Maximum Ratings (T<sub>a</sub> = 25° )

	Symbol	Value	Unit
Collector Base Voltage	V <sub>CBO</sub>	50	V
Collector Emitter Voltage	V <sub>CEO</sub>	50	V
Emitter Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	I <sub>C</sub>	150	mA
Emitter Current	I <sub>E</sub>	-150	mA
Power Dissipation	P <sub>tot</sub>	400	mW
Junction Temperature	T <sub>J</sub>	125	°C
Storage Temperature Range	T <sub>S</sub>	-55 to +125	°C

G S P FORM A IS AVAILABLE



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**РАДИОТЕХ-ТРЕЙД**

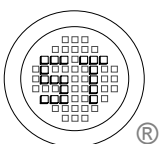
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# ST 2SC3199

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

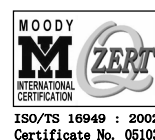
	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $V_{CE}=6\text{V}$ , $I_C=2\text{mA}$					
Current Gain Group O	$h_{FE}$	70	-	140	-
Y	$h_{FE}$	120	-	240	-
G	$h_{FE}$	200	-	400	-
L	$h_{FE}$	350	-	700	-
Collector Emitter Saturation Voltage at $I_C=100\text{mA}$ , $I_B=10\text{mA}$	$V_{CE(sat)}$	-	0.1	0.25	V
Collector Cutoff Current at $V_{CB}=50\text{V}$	$I_{CBO}$	-	-	0.1	$\mu\text{A}$
Emitter Cutoff Current at $V_{EB}=5\text{V}$	$I_{EBO}$	-	-	0.1	$\mu\text{A}$
Transition Frequency at $V_{CE}=10\text{V}$ , $I_C=1\text{mA}$	$f_T$	80	-	-	MHz
Collector Output Capacitance at $V_{CB}=10\text{V}$ , $f=1\text{MHz}$	$C_{OB}$	-	2	3.5	pF
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)



Dated : 07/12/2002