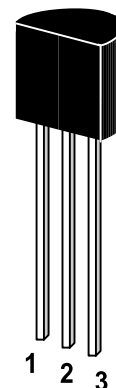


ST 2SA952

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

The transistor is subdivided into three group, M, L
and K according to its DC current gain.

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



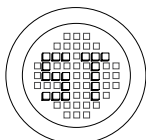
1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	30	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	25	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5	V
Collector Current	$-I_{\text{C}}$	700	mA
Base Current	$-I_{\text{B}}$	150	mA
Power Dissipation	P_{tot}	600	mW
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

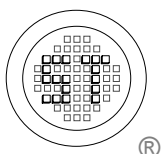
Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

ST 2SA952

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

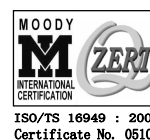
	Symbol	Min.	Typ.	Max.	Unit			
DC Current Gain at $-V_{CE}=1\text{V}$, $-I_C=100\text{mA}$	Current Gain Group	M	h_{FE}	90	-	180	-	
			L	h_{FE}	135	-	270	-
			K	h_{FE}	200	-	400	-
			h_{FE}	50	100	-	-	
at $-V_{CE}=1\text{V}$, $-I_C=700\text{mA}$	h_{FE}	50	100	-	-			
Collector Cutoff Current at $-V_{CB}=30\text{V}$	$-I_{CBO}$	-	-	100	nA			
Emitter Cutoff Current at $-V_{EB}=5\text{V}$	$-I_{EBO}$	-	-	100	nA			
Collector Saturation Voltage at $-I_C=700\text{mA}$, $-I_B=70\text{mA}$	$-V_{CE(sat)}$	-	0.25	0.6	V			
Base Saturation Voltage at $-I_C=700\text{mA}$, $-I_B=70\text{mA}$	$-V_{BE(sat)}$	-	0.95	1.2	V			
Base to Emitter Voltage at $-V_{CE}=6\text{V}$, $-I_C=10\text{mA}$	$-V_{BE}$	600	640	700	mV			
Gain Bandwidth Product at $-V_{CE}=6\text{V}$, $-I_E=10\text{mA}$	f_T	50	160	-	MHz			
Collector to Base Capacitance at $-V_{CB}=6\text{V}$, $f=1\text{MHz}$	C_{OB}	-	17	40	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)



Dated : 07/12/2002