

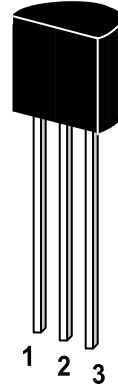
ST 2SA928

PNP Silicon Epitaxial Planar Transistor

for audio power amplifier

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

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

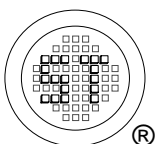


1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.18g

Absolute Maximum Ratings (Ta=25°C)

	Symbol	Value	Unit
Collector to Base Voltage	$-V_{CBO}$	30	V
Collector to Emitter Voltage	$-V_{CEO}$	30	V
Emitter to Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	2	A
Power Dissipation	P_{tot}	1	W
Operating and Storage Junction Temperature	T_j, T_s	-55 to +150	°C



SEMTECH ELECTRONICS LTD.

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



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
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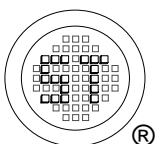
ISO 9001:2000
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Dated : 07/12/2002

ST 2SA928

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

	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $-V_{CE}=2\text{V}$, $-I_C=500\text{mA}$	O	h_{FE}	100	-	200	-
	Y	h_{FE}	160	-	320	-
Collector Cutoff Current at $-V_{CB}=30\text{V}$		$-I_{CBO}$	-	-	0.1	μA
Emitter Cutoff Current at $-V_{EB}=5\text{V}$		$-I_{EBO}$	-	-	0.1	μA
Collector-Emitter Breakdown Voltage at $-I_C=10\text{mA}$		$-V_{(BR)CEO}$	30	-	-	V
Collector-Base Breakdown Voltage at $-I_C=100\mu\text{A}$		$-V_{(BR)CBO}$	30	-	-	V
Emitter-Base Breakdown Voltage at $-I_E=1\text{mA}$		$-V_{(BR)EBO}$	5	-	-	V
Output Capacitance at $-V_{CB}=10\text{V}$, $f=1\text{MHz}$		C_{ob}	-	48	-	pF
Collector to Emitter Saturation Voltage at $-I_C=1.5\text{A}$, $-I_B=0.03\text{A}$		$-V_{CE(sat)}$	-	-	2	V
Base-Emitter Voltage at $-V_{CE}=2\text{V}$, $-I_C=500\text{mA}$		$-V_{BE}$	-	-	1	V
Transition Frequency at $-V_{CE}=2\text{V}$, $-I_C=500\text{mA}$		f_T	-	120	-	MHz



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