

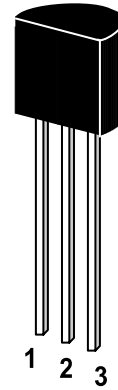
ST 2SA1024

PNP Silicon Epitaxial Planar Transistor

for high voltage applications.

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.

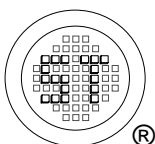


1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	150	V
Collector Emitter Voltage	$-V_{CEO}$	150	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	50	mA
Emitter Current	I_E	50	mA
Power Dissipation	P_{tot}	1000	mW
Junction Temperature	T_j	150	$^\circ\text{C}$
Storage Temperature Range	T_s	-55 to +150	$^\circ\text{C}$



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
Certificate No. 71116



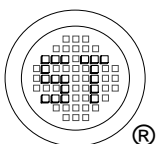
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Dated : 07/12/2002

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

	Symbol	Min.	Typ.	Max.	Unit
DC Current Gain at $-V_{CE}=5\text{V}$, $-I_C=10\text{mA}$ Current Gain Group O Y	h_{FE}	70	-	140	-
	h_{FE}	120	-	240	-
Collector Cutoff Current at $-V_{CB}=150\text{V}$	$-I_{CBO}$	-	-	0.1	μA
Emitter Cutoff Current at $-V_{EB}=5\text{V}$	$-I_{EBO}$	-	-	0.1	μA
Gain Bandwidth Product at $-V_{CE}=30\text{V}$, $-I_C=10\text{mA}$	f_T	-	120	-	MHz
Output Capacitance at $-V_{CB}=10\text{V}$, $f=1\text{MHz}$	C_{OB}	-	4	5	pF
Base Emitter Voltage at $-V_{CE}=5\text{V}$, $-I_C=30\text{mA}$	$-V_{BE}$	-	-	0.9	V
Collector Saturation Voltage at $-I_C=10\text{mA}$, $-I_B=1\text{mA}$	$-V_{CE(sat)}$	-	-	0.8	V



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