

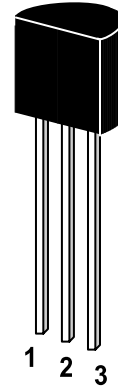
ST 2SA1270

PNP Silicon Epitaxial Planar Transistor

for switching and general purpose 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.

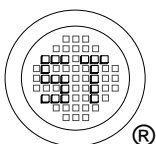


1. Emitter 2. Collector 3. Base

TO-92 Plastic Package
Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	35	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	30	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5	V
Collector Current	$-I_{\text{C}}$	500	mA
Base Current	$-I_{\text{B}}$	100	mA
Power Dissipation	P_{tot}	500	mW
Junction Temperature	T_{j}	150	$^\circ\text{C}$
Storage Temperature Range	T_{s}	-55 to +150	$^\circ\text{C}$



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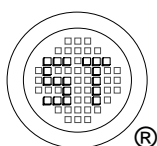


Dated : 07/12/2002

ST 2SA1270

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	O	h_{FE}	70	-	140	-
	Y	h_{FE}	120	-	240	-
	O	h_{FE}	25	-	-	-
	Y	h_{FE}	40	-	-	-
Collector Cutoff Current at $-V_{CB}=35\text{V}$	$-I_{CBO}$	-	-	0.1	μA	
Emitter Cutoff Current at $-V_{EB}=5\text{V}$	$-I_{EBO}$	-	-	0.1	μA	
Collector Emitter Saturation Voltage at $-I_C=100\text{mA}$, $-I_B=10\text{mA}$	$-V_{CEsat}$	-	0.1	0.25	V	
Base Emitter Voltage at $-V_{CE}=1\text{V}$, $-I_C=100\text{mA}$	$-V_{BE}$	-	0.8	1.0	V	
Transition Frequency at $-V_{CE}=6\text{V}$, $-I_C=20\text{mA}$	f_T	-	200	-	MHz	
Collector Output Capacitance at $-V_{CB}=6\text{V}$, $f=1\text{MHz}$	C_{OB}	-	13	-	pF	



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ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

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