

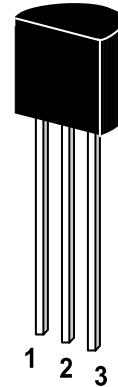
# ST 2SA1268

## PNP Silicon Epitaxial Planar Transistor

For high voltage applications.

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

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

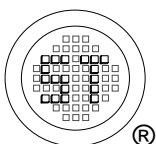


1. Emitter 2. Collector 3. Base

TO-92 Plastic Package  
Weight approx. 0.19g

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

	Symbol	Value	Unit
Collector Base Voltage	$-V_{\text{CBO}}$	120	V
Collector Emitter Voltage	$-V_{\text{CEO}}$	120	V
Emitter Base Voltage	$-V_{\text{EBO}}$	5	V
Collector Current	$-I_{\text{C}}$	100	mA
Emitter Current	$I_{\text{E}}$	100	mA
Power Dissipation	$P_{\text{tot}}$	300	mW
Junction Temperature	$T_{\text{j}}$	125	$^\circ\text{C}$
Storage Temperature Range	$T_{\text{s}}$	-55 to +125	$^\circ\text{C}$



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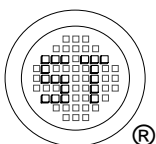


Dated : 07/12/2002

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

	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $-V_{CE}=6\text{V}$ , $-I_C=2\text{mA}$	Current Gain Group G	$h_{FE}$	200	-	400	-
	L	$h_{FE}$	350	-	700	-
Collector Emitter Breakdown Voltage at $-I_C=1\text{mA}$	$-V_{(BR)CEO}$	120	-	-	V	
Gain Bandwidth Product at $-V_{CE}=6\text{V}$ , $-I_C=1\text{mA}$	$f_T$	-	100	-	MHz	
Noise Figure at $-V_{CE}=6\text{V}$ , $-I_C=0.1\text{mA}$ , $R_G=10\text{k}\Omega$ , $f=10\text{Hz}$	NF	-	-	6	dB	
Output Capacitance at $-V_{CB}=10\text{V}$ , $f=1\text{MHz}$	$C_{OB}$	-	4	-	pF	
Base Emitter Voltage at $-V_{CE}=6\text{V}$ , $-I_C=2\text{mA}$	$-V_{BE}$	-	0.65	-	V	
Collector Cutoff Current at $-V_{CB}=120\text{V}$	$-I_{CBO}$	-	-	0.1	$\mu\text{A}$	
Emitter Cutoff Current at $-V_{EB}=5\text{V}$	$-I_{EBO}$	-	-	0.1	$\mu\text{A}$	
Collector Saturation Voltage at $-I_C=10\text{mA}$ , $-I_B=1\text{mA}$	$-V_{CE(sat)}$	-	-	0.3	V	



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