## NPN Silicon Epitaxial Planar Transistor

High -Voltage Low-Noise Amp applications

The transistor is subdivided into three groups F, G and H, according to its DC current gain.



1. Emitter 2. Collector 3. Base

TO-92 Plastic Package Weight approx. 0.19g

## Absolute Maximum Ratings (T<sub>a</sub> = 25°C)

	Symbol	Value	Unit
Collector Base Voltage	V <sub>CBO</sub>	120	V
Collector Emitter Voltage	V <sub>CEO</sub>	100	V
Emitter Base Voltage	V <sub>EBO</sub>	5	V
Collector Current	Ι <sub>C</sub>	50	mA
Collector Current (Pulse)	I <sub>CP</sub>	100	mA
Collector Dissipation	P <sub>tot</sub>	400	mW
Junction Temperature	Tj	125	°C
Storage Temperature Range	Ts	-55 to +125	°C







## ST 2SC2362

## Characteristics at $T_{amb}$ =25 $^{o}C$

	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain					
at V <sub>CE</sub> =6V, I <sub>C</sub> =1mA					
Current Gain Group F	h <sub>FE</sub>	160	-	320	-
G	h <sub>FE</sub>	280	-	560	-
Н	h <sub>FE</sub>	480	-	960	-
Collector Base Breakdown Voltage					
at I <sub>c</sub> =10μA	V <sub>(BR)CBO</sub>	120	-	-	V
Collector Emitter Breakdown Voltage					
at I <sub>c</sub> =1mA	V <sub>(BR)CEO</sub>	100	-	-	V
Emitter Base Breakdown Voltage					
at I <sub>E</sub> =10μA	V <sub>(BR)EBO</sub>	5	-	-	V
Collector Cutoff Current					
atV <sub>CB</sub> =80V	I <sub>CBO</sub>	-	-	1	μΑ
Emitter Cutoff Current					
atV <sub>EB</sub> =4V	I <sub>EBO</sub>	-	-	1	μΑ
Collector Emitter Saturation Voltage					
at I <sub>C</sub> =10mA, I <sub>B</sub> =1mA	V <sub>CE(sat)</sub>	-	-	0.5	V
Gain Bandwidth Product					
at $V_{CE}$ =6V, I <sub>C</sub> =1mA	f⊤	-	130	-	MHz
Output Capacitance					
at V <sub>CB</sub> =10V, f=1MHz	C <sub>OB</sub>	-	1.8	-	pF
Noise Level					
at V <sub>CC</sub> =30V, $I_C$ =1mA					
$R_g$ =56K $\Omega$ , $V_G$ =77dB/1kHz	C <sub>NO(ave)</sub>	-	-	35	mV
Noise Peak Level					
at $V_{CC}$ =30V, $I_{C}$ =1mA					
$R_g$ =56K $\Omega$ , $V_G$ =77dB/1kHz	C <sub>NO(peak)</sub>	-	-	200	mV







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