# Transistors 2SC900

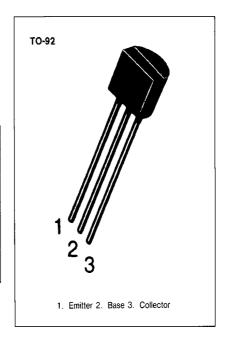


# LOW FREQUENCY, LOW NOISE AMPLIFIER

- Collector-Base Voltage V<sub>CBO</sub> = 30V
- Low Noise Level NL=50mV (Max)

# ABSOLUTE MAXIMUM RATINGS (Ta = 25°C)

Characteristic	Symbol	Rating	Unit	
Collector-Base Voltage	V <sub>CBO</sub>	30	٧	
Collector-Emitter Voltage	V <sub>CEO</sub>	25	V	
Emitter-Base Voltage	V <sub>EBO</sub>	5	V	
Collector Current	Ic	50	mA	
Collector Dissipation	Pc	250	mW	
Junction Temperature	Ti	150	°C	
Storage Temperature	Tstg	-55~150	°C	



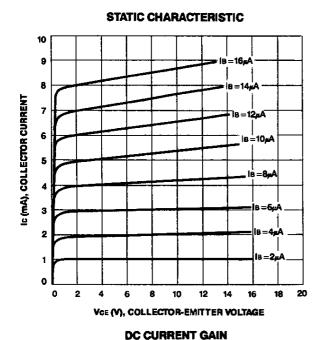
# **ELECTRICAL CHARACTERISTICS (Ta=25°C)**

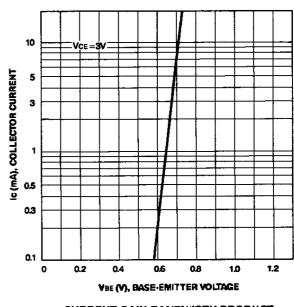
Characteristic	Symbol	Test Conditions	Min	Тур	Max	Unit
Collector-Base Breakdown Voltage Collector-Emitter Breakdown Voltage Emitter-Base Breakdown Voltage Collector Cut-off Current Emitter Cut-off Current DC Current Gain Collector-Emitter Saturation Voltage Base-Emitter On Voltage Current Gain-Bandwidth Product Noise Level	BV <sub>CBO</sub> BV <sub>EBO</sub> I <sub>CBO</sub> I <sub>EBO</sub> h <sub>FE</sub> V <sub>CE</sub> (sat) V <sub>BE</sub> (on) f <sub>T</sub> NL	$\begin{split} &I_{C}=100\mu\text{A},\ I_{E}=0\\ &I_{C}=10\text{mA},\ I_{B}=0\\ &I_{E}=10\mu\text{A},\ I_{C}=0\\ &V_{CB}=25\text{V},\ I_{E}=0\\ &V_{CE}=3\text{V},\ I_{C}=0.5\text{mA}\\ &I_{C}=20\text{mA},\ I_{B}=2\text{mA}\\ &V_{CE}=3\text{V},\ I_{C}=0.5\text{mA}\\ &V_{CE}=3\text{V},\ I_{C}=1\text{mA}\\ &V_{CC}=12\text{V},\ I_{C}=0.1\text{mA}\\ &R_{S}=25\text{K}\Omega\\ &A_{V}=80\text{dB},\ (f=1\text{KHz}) \end{split}$	30 25 5	0.1 0.62 100 30	50 100 1000 0.2 0.7	V V NA nA V V MHz mV

# **h**<sub>FE</sub> CLASSIFICATION

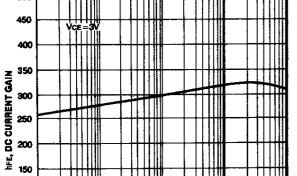
Classification	Υ	G	L	٧
h <sub>FE</sub>	120-240	200-400	350-700	600-1000



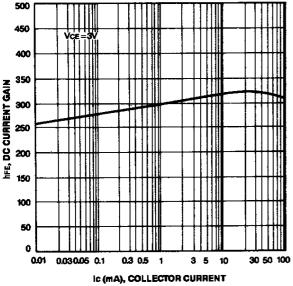


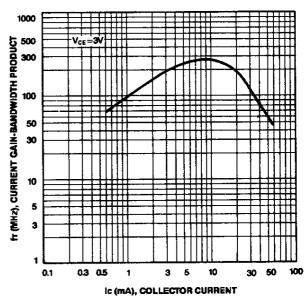


BASE-EMITTER ON VOLTAGE



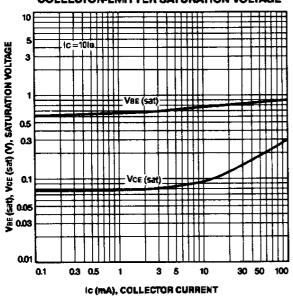


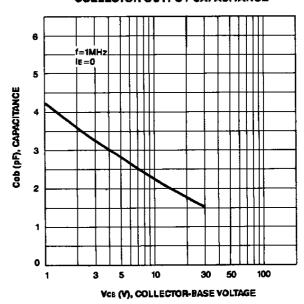




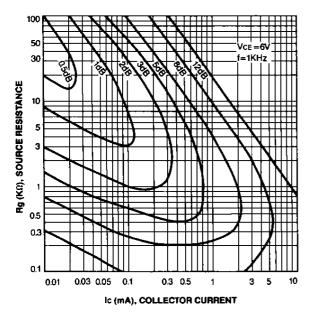


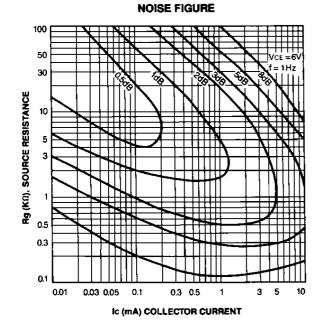
### **COLLECTOR OUTPUT CAPACITANCE**



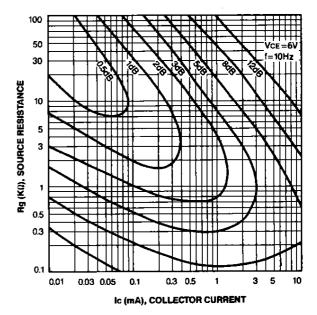


#### **NOISE FIGURE**





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