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**KSA812** 

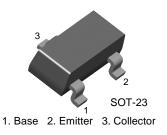


SEMICONDUCTOR®

### **KSA812**

### Low Frequency Amplifier

- Collector-Base Voltage : V<sub>CBO</sub>= -60V
  Complement to KSC1623



### **PNP Epitaxial Silicon Transistor**

Absolute Maximum Ratings $T_a=25$ °C unless otherwise noted
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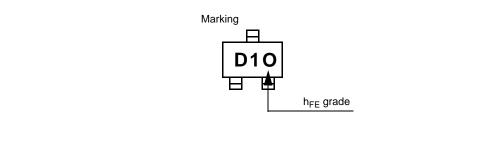
Symbol	Parameter	Ratings	Units	
V <sub>CBO</sub>	Collector-Base Voltage	-60	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-50	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
I <sub>C</sub>	Collector Current	-100	mA	
C Collector Power Dissipation		150	mW	
Тј	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C	

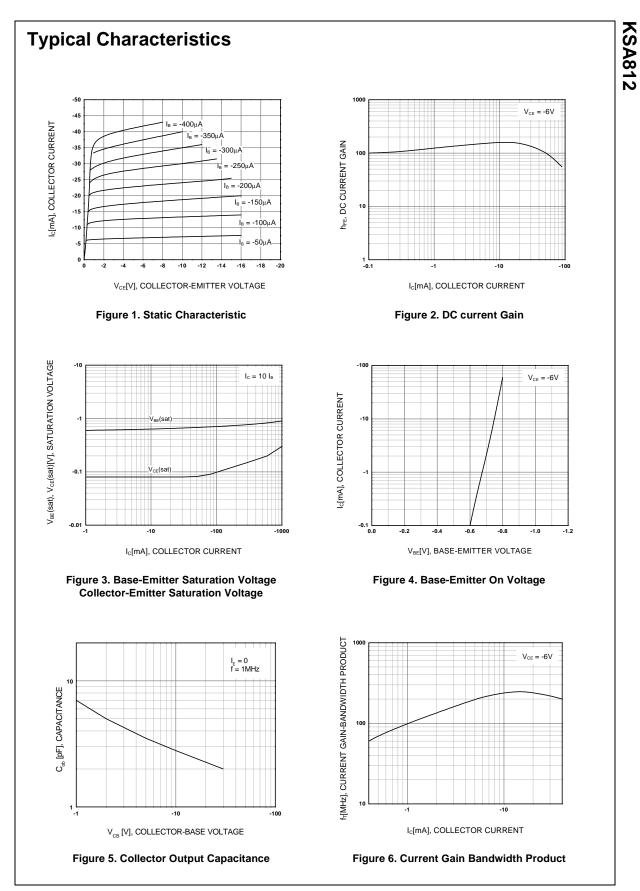
### **Electrical Characteristics** $T_a=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> = -60V, I <sub>E</sub> =0			-0.1	μΑ
I <sub>EBO</sub>	Emitter Cut-off Current	V <sub>EB</sub> = -5V, I <sub>C</sub> =0			-0.1	μΑ
h <sub>FE</sub>	DC Current Gain	V <sub>CE</sub> = -6V, I <sub>C</sub> = -1mA	90	200	600	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -100mA, I <sub>B</sub> = -10mA		-0.18	-0.3	V
V <sub>BE</sub> (on)	Base-Emitter On Voltage	V <sub>CE</sub> = -6V, I <sub>C</sub> = -1mA	-0.55	-0.62	-0.65	V
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = -6V, I <sub>C</sub> = -10mA		180		MHz
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = -10V, I <sub>E</sub> =0, f=1MHz		4.5		pF

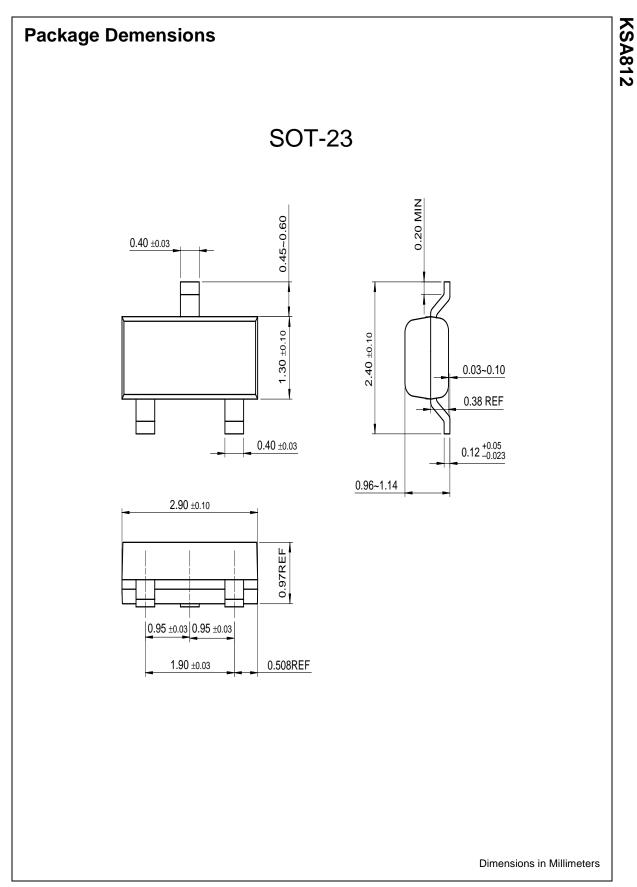
### h<sub>FE</sub> Classification

Classification	0	Y	G	L
h <sub>FE</sub>	90 ~ 180	135 ~ 270	200 ~ 400	300 ~ 600





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