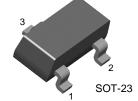
Rev. A1, June 2001



KSA812

Low Frequency Amplifier

- Collector-Base Voltage: V_{CBO}= -60V
 Complement to KSC1623



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a =25°C unless otherwise noted

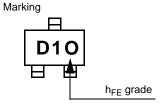
Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-100	mA
P _C	Collector Power Dissipation	150	mW
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a =25°C unless otherwise noted

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

$h_{\mbox{\scriptsize FE}}$ Classification

Classification	0	Υ	G	L
h _{FE}	90 ~ 180	135 ~ 270	200 ~ 400	300 ~ 600



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Typical Characteristics

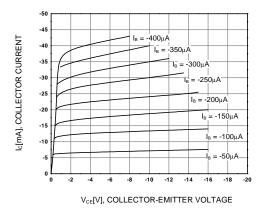


Figure 1. Static Characteristic

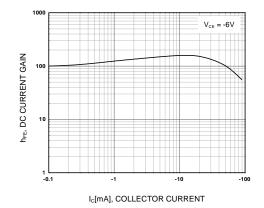


Figure 2. DC current Gain

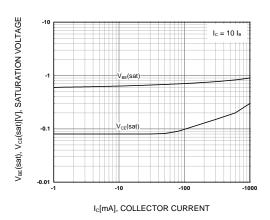


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

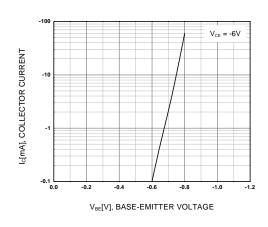


Figure 4. Base-Emitter On Voltage

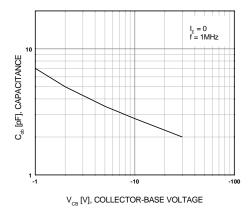


Figure 5. Collector Output Capacitance

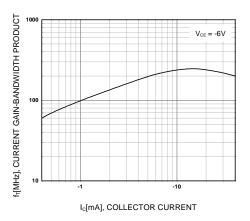
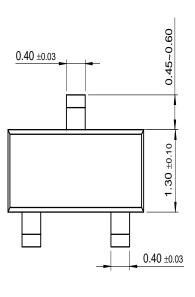


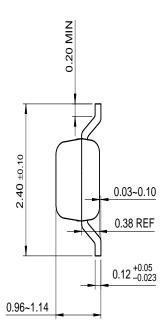
Figure 6. Current Gain Bandwidth Product

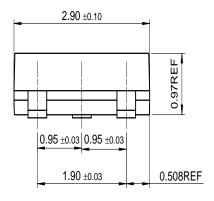
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Package Demensions

SOT-23







Dimensions in Millimeters

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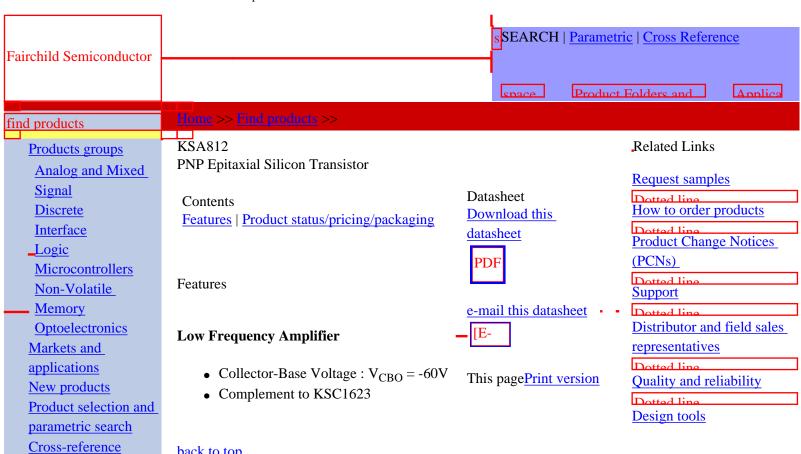
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KSA812OMTF	Full Production	\$0.045	<u>SOT-23</u>	3	TAPE REEL
KSA812GAMTF	Full Production	\$0.045	<u>SOT-23</u>	3	TAPE REEL
KSA812YMTF	Full Production	\$0.045	<u>SOT-23</u>	3	TAPE REEL
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