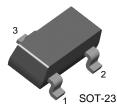
FAIRCHILD

SEMICONDUCTOR®

KSC1623

Low Frequency Amplifier & High Frequency OSC.

Complement to KSA812



1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^{\circ}C$ unless otherwise noted

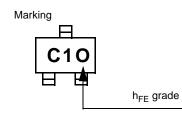
Symbol	Parameter	Ratings	
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	5	V
С	Collector Current	100	mA
P _C	Collector Power Dissipation	200	mW
Т _Ј	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

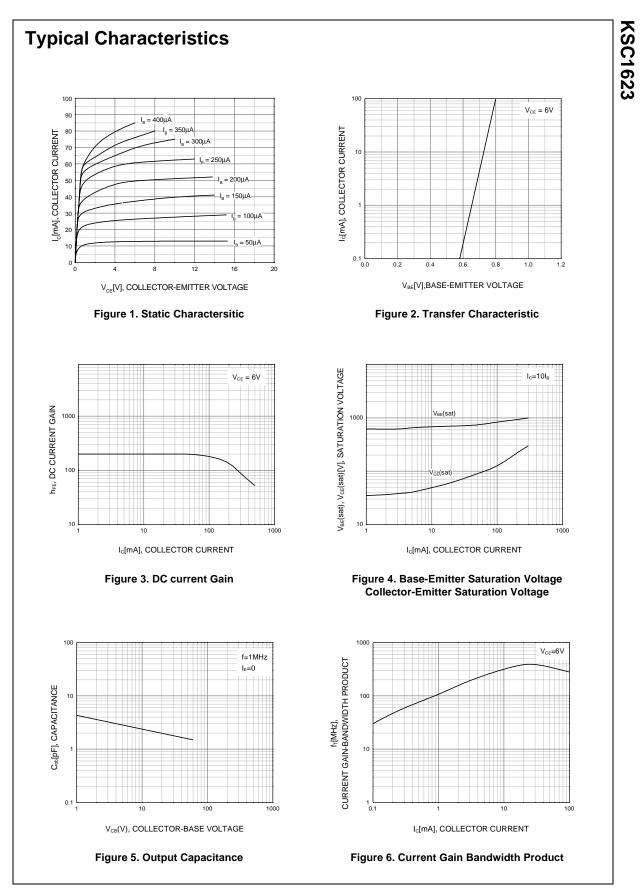
Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

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		0.15	0.3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C =100mA, I _B =10mA		0.86	1.0	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		250		MHz
C _{ob}	Output Capacitance	V _{CB} =6V, I _E =0, f=1MHz		3		pF

h_{FE} Classification

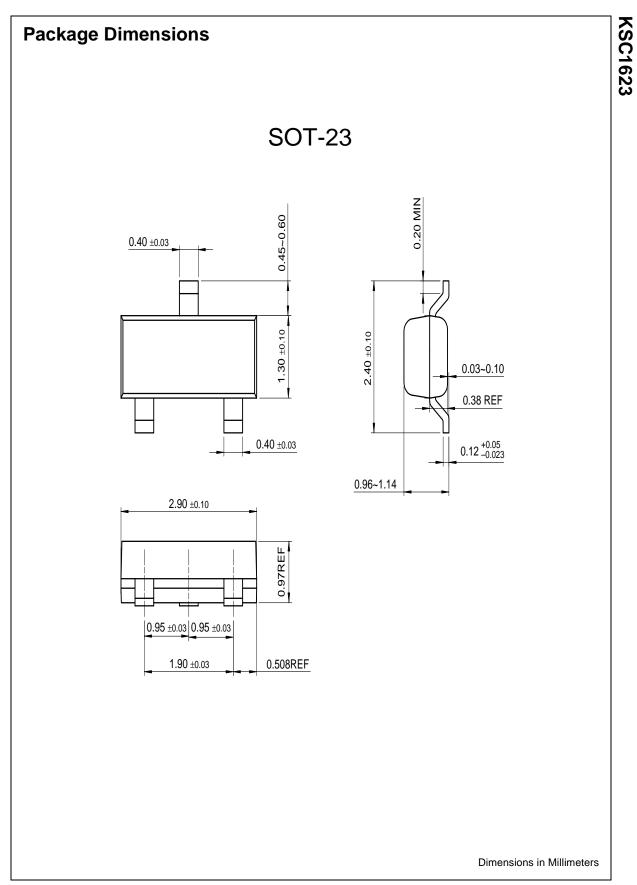
Classification	0	Y	G	L
h _{FE}	90 ~ 180	135 ~ 270	200 ~ 400	300 ~ 600





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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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Definition of Terms

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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