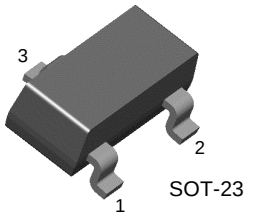
FAIRCHILD
SEMICONDUCTOR®

KSA1182

Low Frequency Power Amplifier

- Complement to KSC2859



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	-35	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	-500	mA
P_C	Collector Power Dissipation	150	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 ~ 150	°C

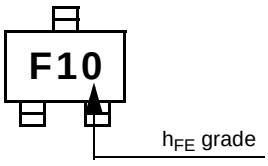
Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
I_{CBO}	Collector Cut-off Current	V_{CB}= -35V, I_E=0			-0.1	μA
I_{EBO}	Emitter Cut-off Current	V_{EB}= -5V, I_C=0			-0.1	μA
h_{FE1} h_{FE2}	DC Current Gain	V_{CE}= -1V, I_C= -100mA V_{CE}= -6V, I_C= -400mA	70 25		240	
V_{CE} (sat)	Collector-Emitter Saturation Voltage	I_C= -100mA, I_B= -10mA		-0.1	-0.25	V
V_{BE} (on)	Base-Emitter On Voltage	V_{CE}= -1V , I_C= -100mA		-0.8	-1.0	V
f_T	Current Gain Bandwidth Product	V_{CE}= -6V, I_C= -20mA		200		MHz
C_{ob}	Output Capacitance	V_{CB}= -6V, I_E= 0, f=1MHz		13		pF

h_{FE} Classification

Classification	O	Y
h_{FE1}	70 ~ 140	120 ~ 240

Marking



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Typical Characteristics

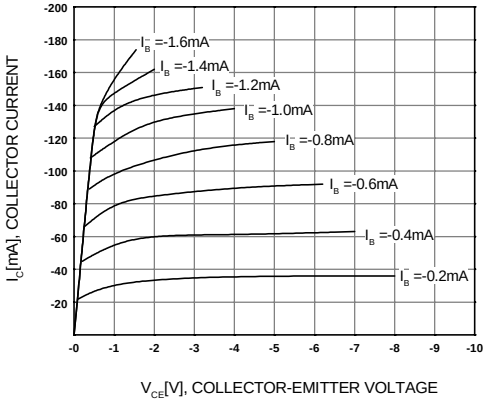

Figure 1. Static Characteristic

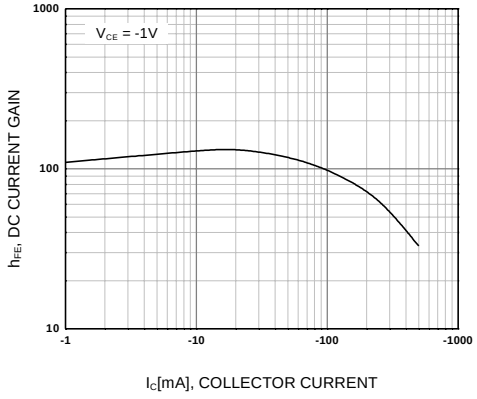

Figure 2. DC current Gain

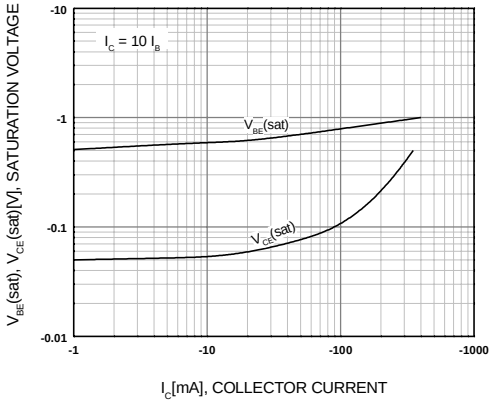

Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

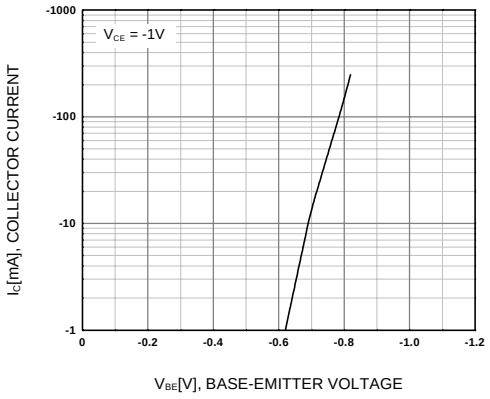

Figure 4. Base-Emitter On Voltage

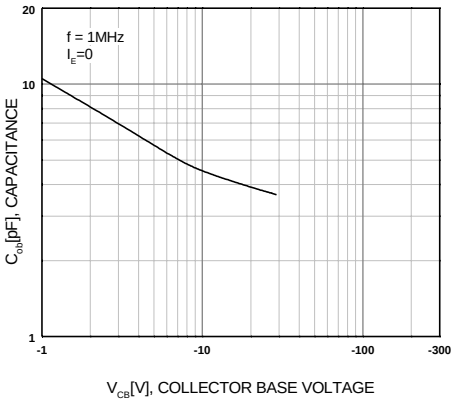

Figure 5. Collector Output Capacitance

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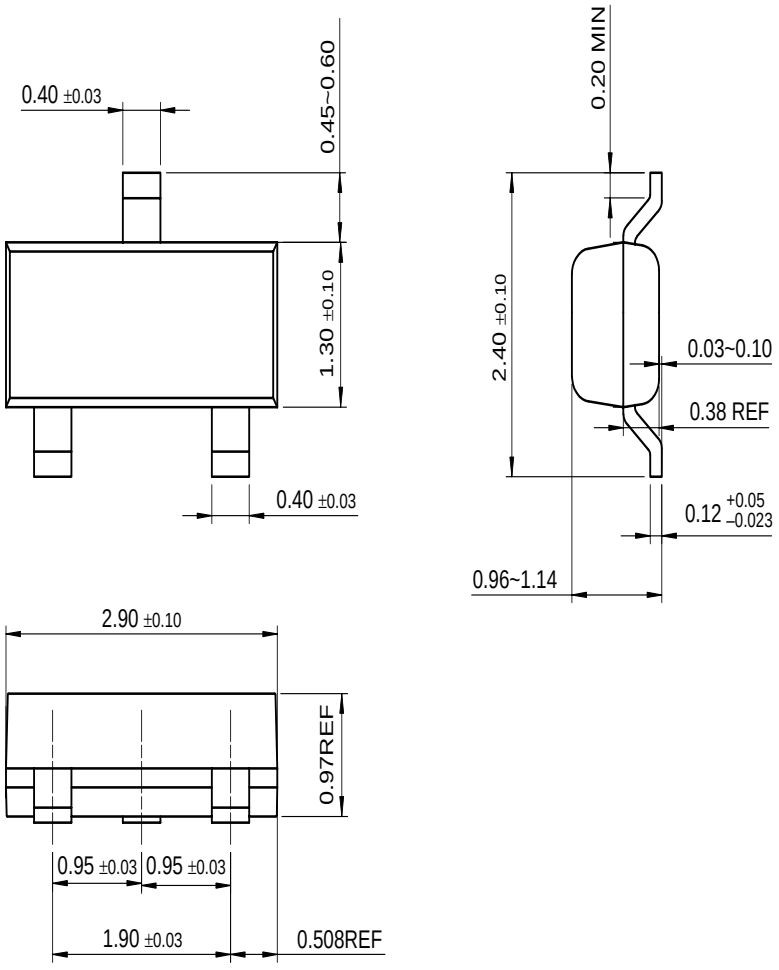
Package Demensions

SOT-23



Dimensions in Millimeters

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