FAIRCHILD

SEMICONDUCTOR®

KSA1174

Audio Frequency Low Noise Amplifier

Complement to KSC2784



1.Emitter 2. Collector 3. Base

PNP Epitaxial Silicon Transistor

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

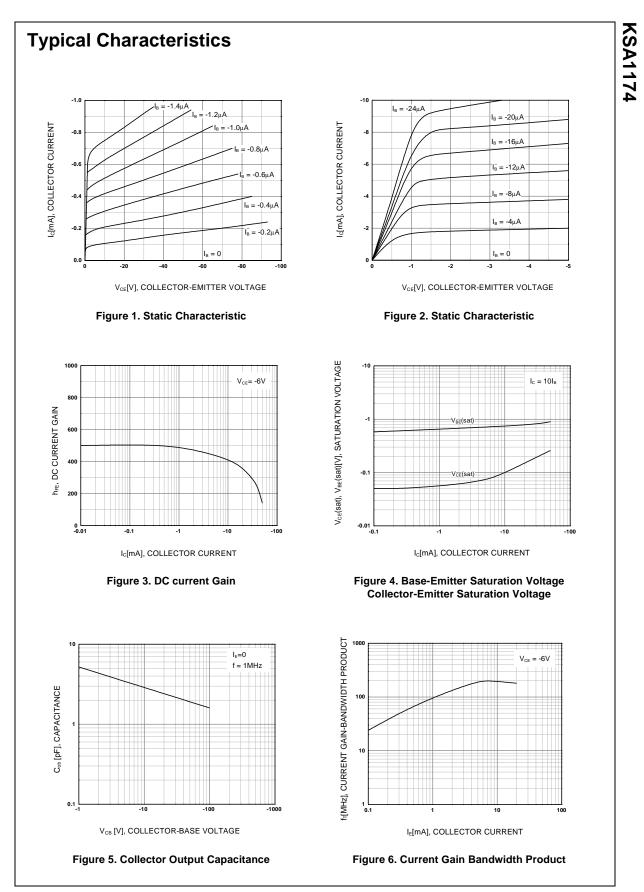
Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-50	mA
I _B	Base Current	-10	mA
P _C	Collector Power Dissipation	300	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-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} = -120V, I _E =0			-50	nA
I _{CEO}	Collector Cut-off Current	V _{CE} = -100V, I _B =0			-1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5V, I _C = 0			-50	nA
h _{FE1}	DC Current Gain	V _{CE} = -6V, I _C = -0.1mA	150	500		
h _{FE2}		V _{CE} = -6V, I _C = -1mA	200	500	800	
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -6V, I _C = -1mA	-0.55	-0.61	-0.65	V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -10mA, I _B = -1mA		-0.09	-0.3	V
f _T	Current Gain Bandwidth Product	V _{CE} = -6V, I _C = -1mA	50	100		MHz
C _{ob}	Output Capacitance	V _{CB} = -30V, I _E = 0, f=1MHz		2	3	pF
NV	Noise Voltage			25	40	mV

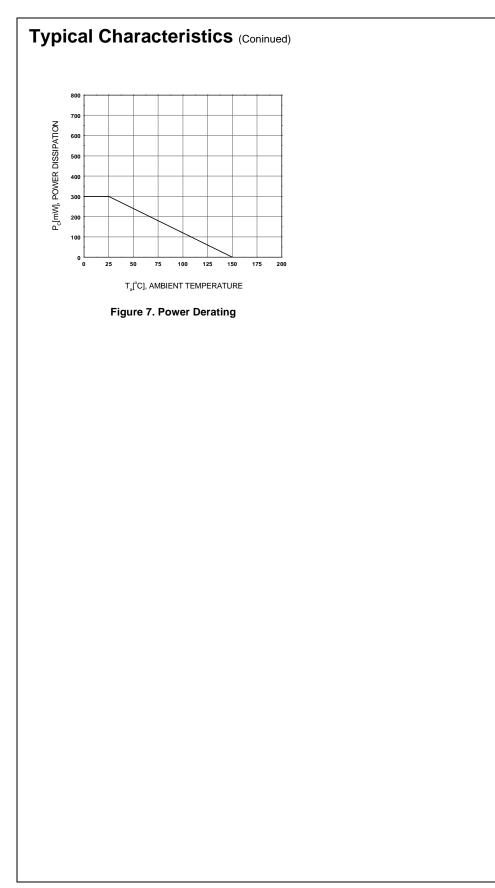
h_{FE2} Classification

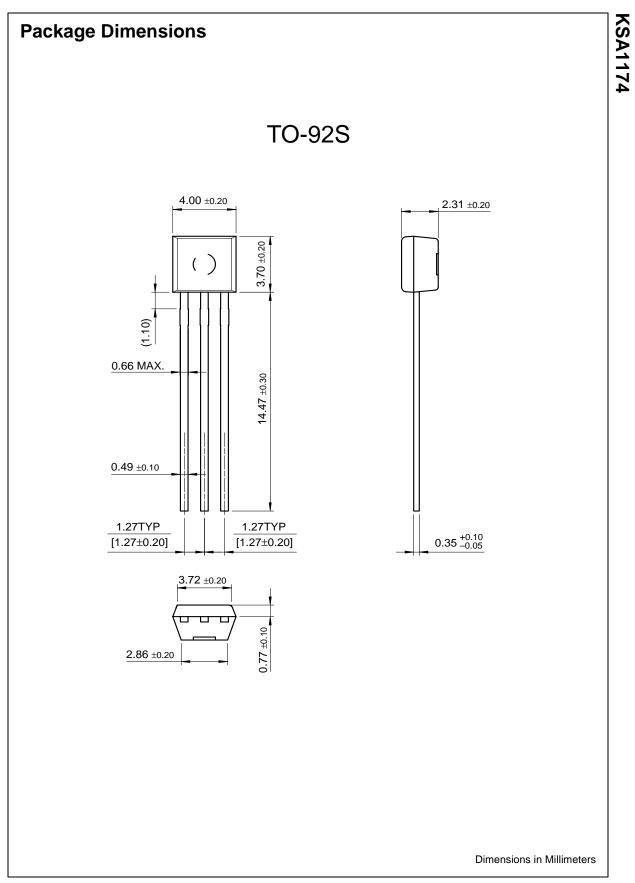
Classification	Р	F	E			
h _{FE2}	200 ~ 400	300 ~ 600	400 ~ 800			



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PRODUCT STATUS DEFINITIONS

Definition of Terms

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