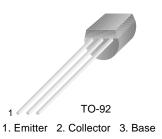
FAIRCHILD

SEMICONDUCTOR®

KSA992

Audio Frequency Low Noise Amplifier

• Complement to KSC1845



PNP Epitaxial Silicon Transistor

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

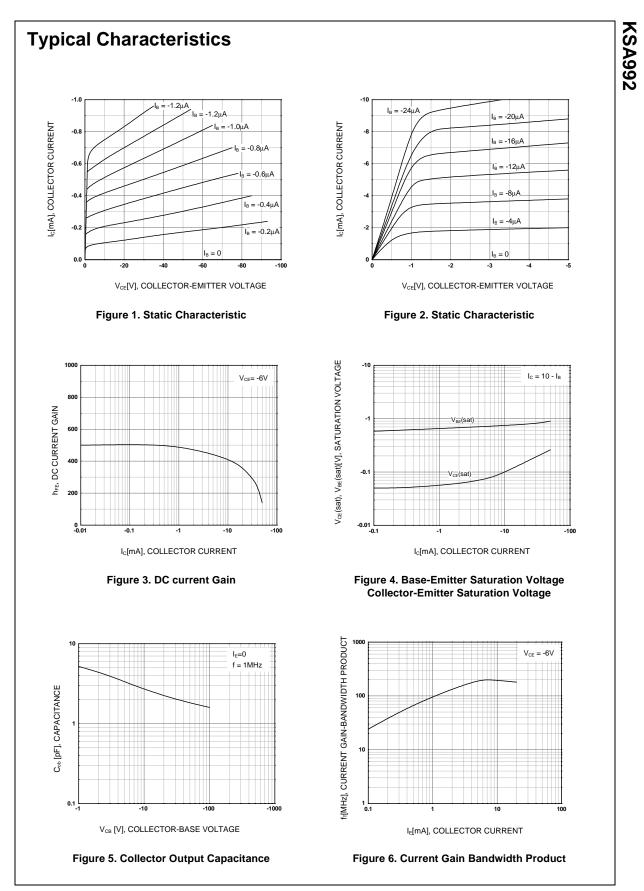
Symbol	Parameter	Ratings	Units V	
V _{CBO}	Collector-Base Voltage	-120		
V _{CEO}	Collector-Emitter Voltage	-120	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
I _C	Collector Current	-50	mA	
I _B	Base Current	-10	mA	
P _C	Collector Power Dissipation	500	mW	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

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

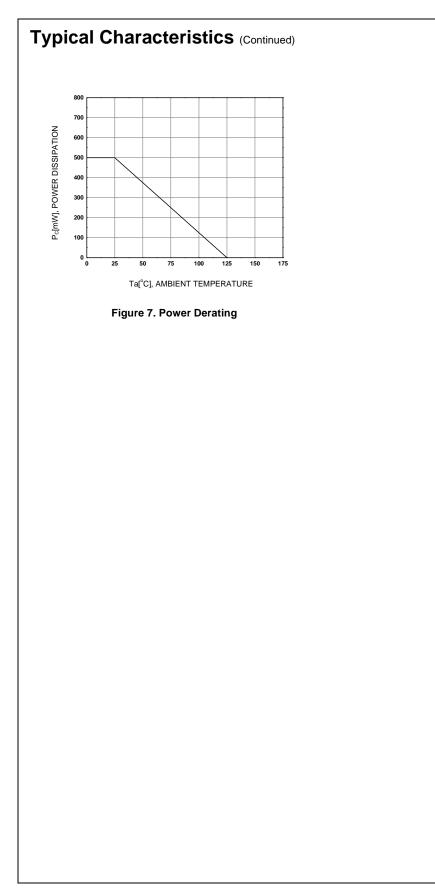
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} = -120V, I _E =0			-50	nA
I _{CEO}	Collector Cur-off Current	V _{CE} = -100V, I _B =0			-1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5mA, I _C =0			-50	nA
h _{FE1} h _{FE2}	DC Current Gain	V_{CE} = -6V, I_{C} = -0.1mA V_{CE} = -6V, I_{C} = -1mA	150 200	500 500	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	V_{CE} = -5.0V, I _C = -1.0mA, R _G =100KW, G _V = 80dB, f = 10Hz to 1.0KHz		25	40	mV

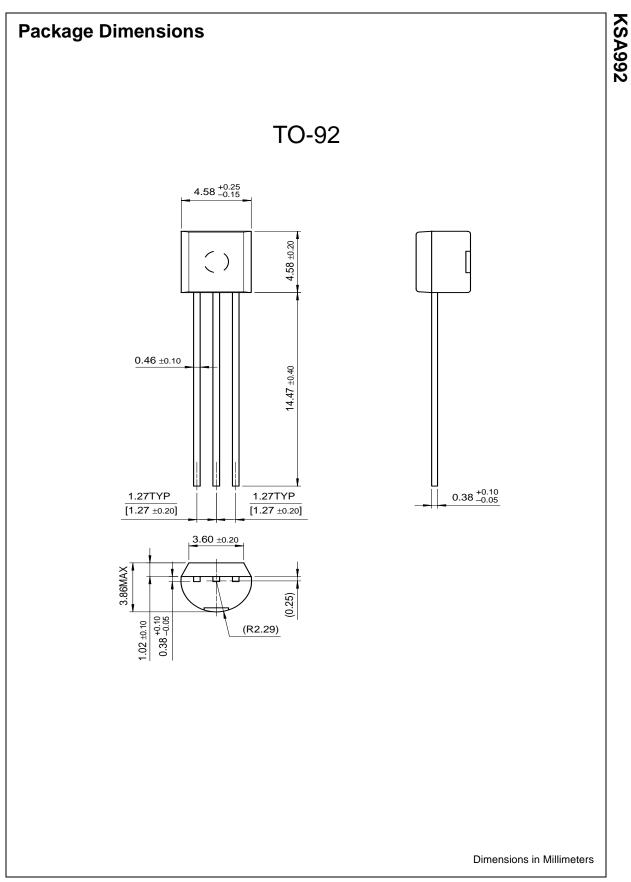
h_{FE2} Classification

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



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FACT Quiet Series™		OPTOLOGIC [®]	SILENT SWITCHER [®]	VCX™
Across the board. Around the world.™		OPTOPLANAR™	SMART START™	
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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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