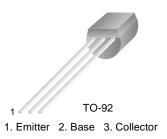
FAIRCHILD

SEMICONDUCTOR

KSA642

Low Frequency Power Amplifier

- Complement to KSD227
- Collector Power Dissipation : P_C = 400mW
 Suffix "-C" means Center Collector (1. Emitter 2. Collector 3. Base)



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	-30	V	
V _{CEO}	Collector-Emitter Voltage	-25	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
I _C	Collector Current (DC)	-300	mA	
I _{CP}	* Collector Current (Pulse)	-500	mA	
P _C	Collector Power Dissipation	400	mW	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

* PW≤10ms, Duty cycle≤50%

Electrical Characteristics T_a=25°C unless otherwise noted

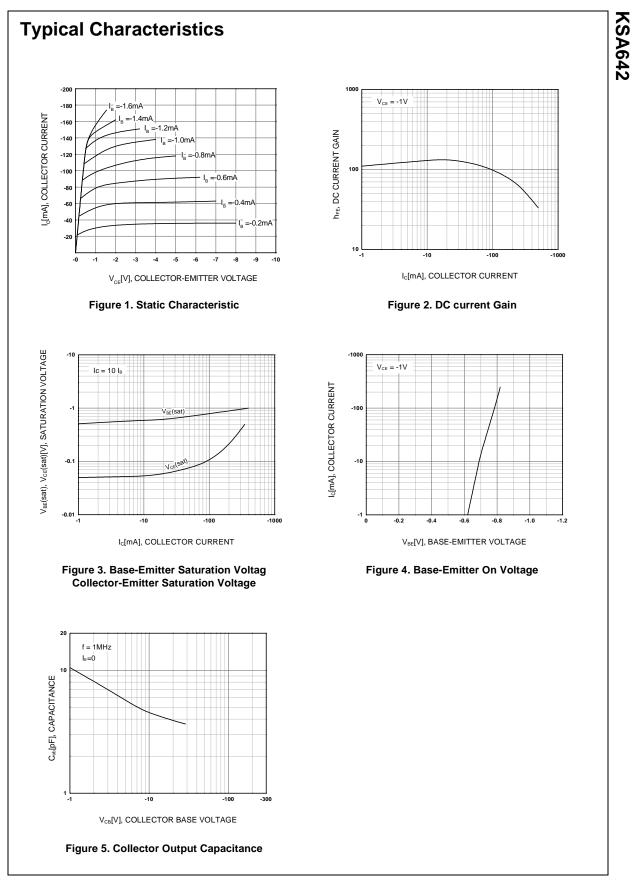
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E =0	-30			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA. I _B =0	-25			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μΑ. I _C =0	- 5			V
I _{CBO}	Collector Cut-off Current	V _{CB} = -25V, I _E =0			-100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -3V, I _C =0			-100	nA
h _{FE}	* DC Current Gain	V _{CE} = -1V, I _C = -50mA	70		400	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -300mA, I _B = -30mA		-0.35	-0.6	V

* Pulse Test: PW≤350µs, Duty cycle≤2%

h_{FE} Classification

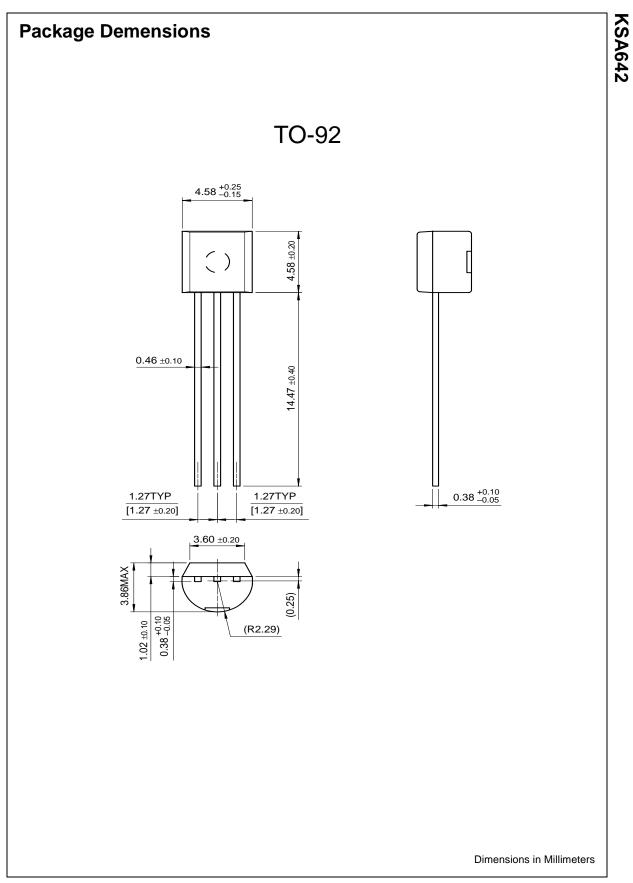
Classification	0	Y	G
h _{FE}	70 ~ 140	120 ~ 240	200 ~ 400

KSA642



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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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.