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FAIRCHILD

SEMICONDUCTOR®

KSC2785

Audio Frequency Amplifier & High Frequency OSC.

- Complement to KSA1175
- Collector-Base Voltage : V_{CBO}=60V



1.Emitter 2. Collector 3. Base

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

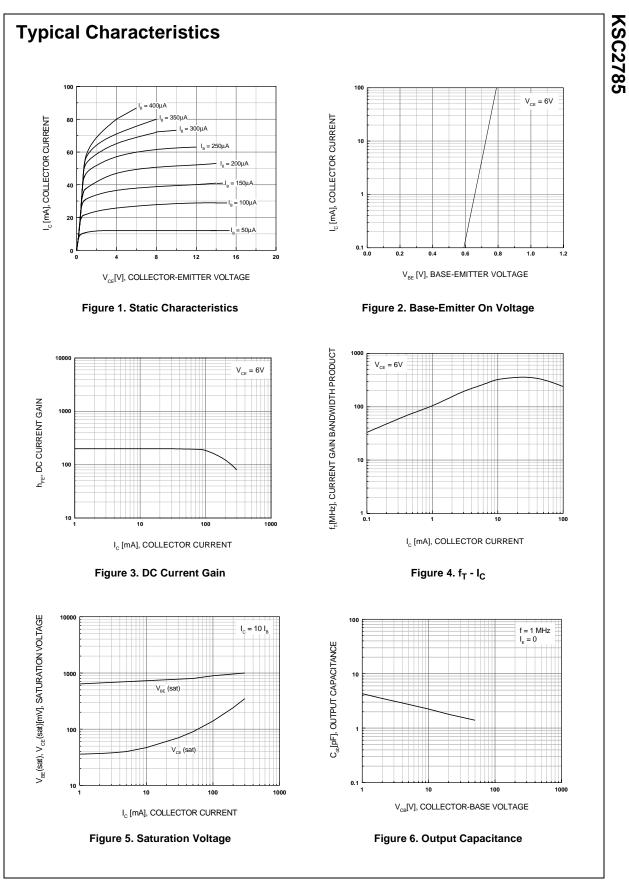
Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	60	V	
	Collector-Emitter Voltage	50	V	
V _{CEO} V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current	150	mA	
P _C	Collector Power Dissipation	250	mW	
TJ	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

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

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	60			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0	50			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =40V, I _E =0			0.1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =3V, I _C =0			0.1	μΑ
h _{FE}	DC Current Gain	V _{CE} =6V, I _C =1.0mA	70		700	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =100mA, I _B =10mA		0.15	0.3	V
f _T	Current Gain Bandwidth Product	V _{CE} =6V, I _C =10mA		300		MHz
C _{ob}	Output Capacitance	V _{CB} =6V, I _E =0, f=1MHz		2.5		pF
NF	Noise Figure	V_{CE} =6, I _C =0.5mA f=1KHz, R _S =500 Ω		4.0		dB

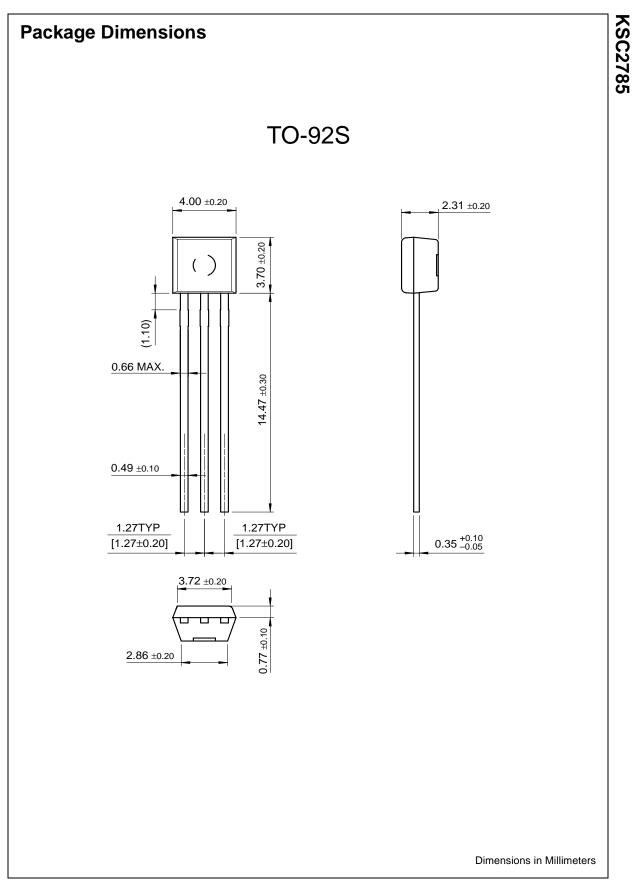
h_{FE} Classification

Classification	0	Y	G	L		
h _{FE}	70 ~ 140	120 ~ 240	200 ~ 400	350 ~ 700		



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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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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.