FAIRCHILD

SEMICONDUCTOR

KSD261

Low Frequency Power Amplifier

- Complement to KSA643
- Collector Power Dissipation : P_C=500mW
- Suffix "-C" means Center Collector (1. Emitter 2. Collector 3. Base)



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	40	V	
V _{CEO}	Collector-Emitter Voltage	20	V	
V _{EBO}	Emitter-Base Voltage	5	V	
I _C	Collector Current	500	mA	
P _C	Collector Power Dissipation	500	mW	
Тј	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

Electrical Characteristics Ta=25°C unless otherwise noted

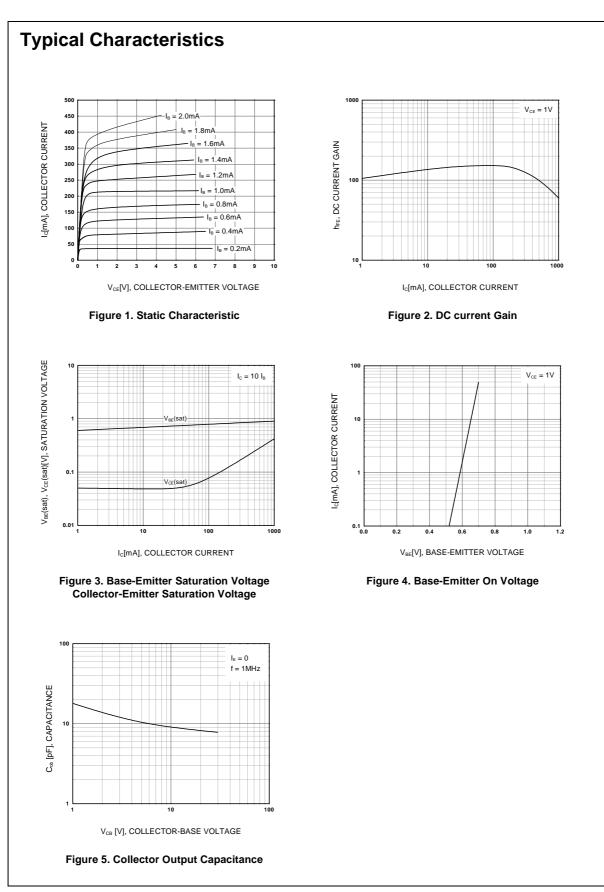
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	40			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0	20			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =100μA, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =25V, 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} =1V, I _C =0.1A	40		400	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =0.5A, I _B =50mA		0.18	0.4	V

h_{FE} Classification

Classification	R	0	Y	G
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240	200 ~ 400

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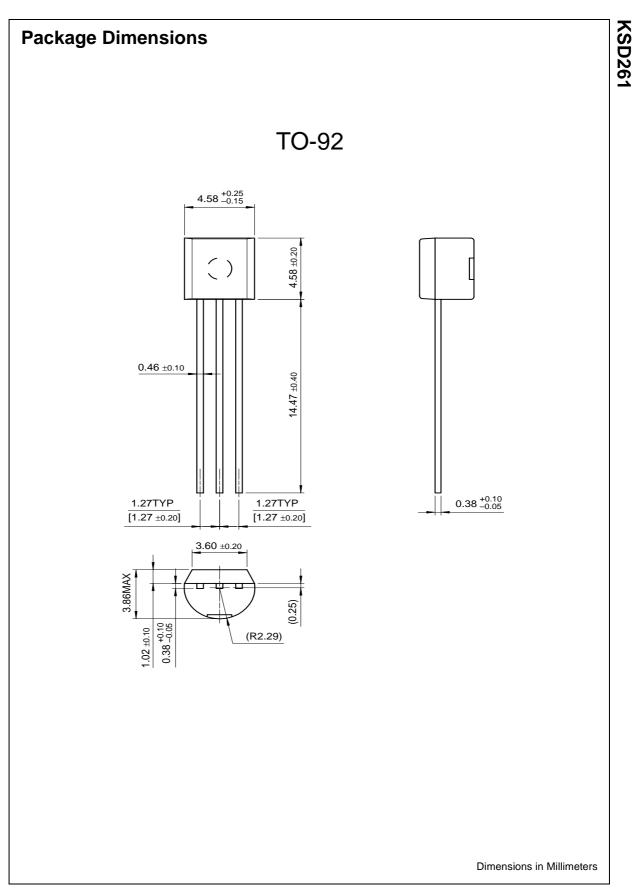
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KSD261



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Programmable A	ctive Droop™	OPTOPLANAR™	SMART START™	

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