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FAIRCHILD

SEMICONDUCTOR®

KSA733

Low Frequency Amplifier

- Collector-Base Voltage : V_{CBO}= -60V
- Complement to KSC945
- Suffix "-C" means Center Collector (1. Emitter 2. Collector 3. Base)



PNP Epitaxial Silicon Transistor

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

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

Electrical Characteristics T_a=25°C unless otherwise noted

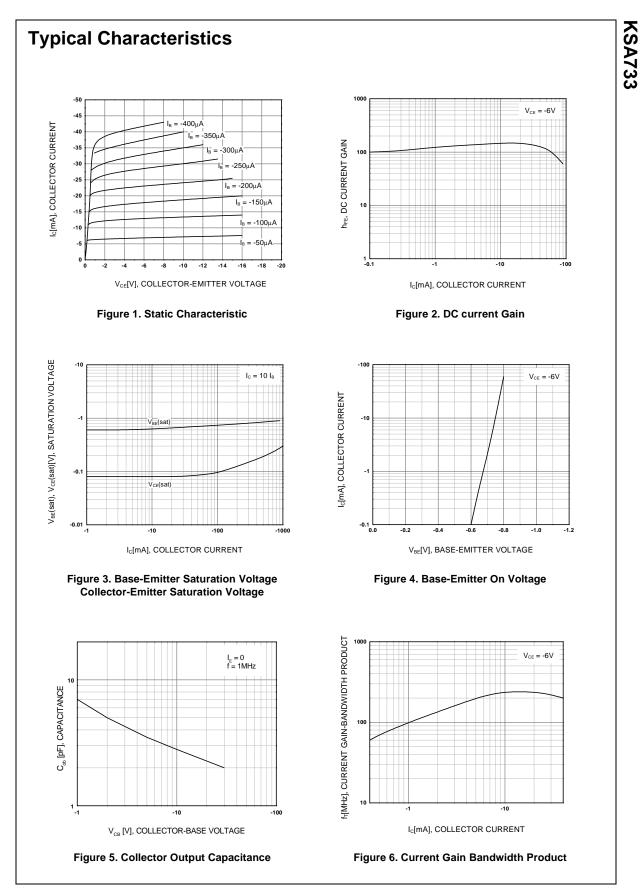
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E =0	-60			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA. I _B =0	-50			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μΑ. I _C =0	- 5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =60V, I _E =0			-100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5V, I _C =0			-100	nA
h _{FE}	DC Current Gain	V _{CE} = -6V, I _C = -1mA	40		700	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -100mA, I _B = -10mA		-0.18	-0.3	V
V _{BE} (on)	Base-Emitter On Voltage	V _{CE} = -6V, I _C = -1mA	-0.50	-0.62	-0.80	V
f _T	Current Gain Bandwidth Product	V _{CE} = -6V, I _C = -10mA	50	180		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E = 0, f=1MHz		2.8		pF
NF	Noise Figure	V _{CE} = -6V, I _C = -0.3mA f=1MHz, Rs=10kΩ		6.0	20	dB

h_{FE} Classification

Classification	R	0	Y	G	L
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240	200 ~ 400	350 ~ 700

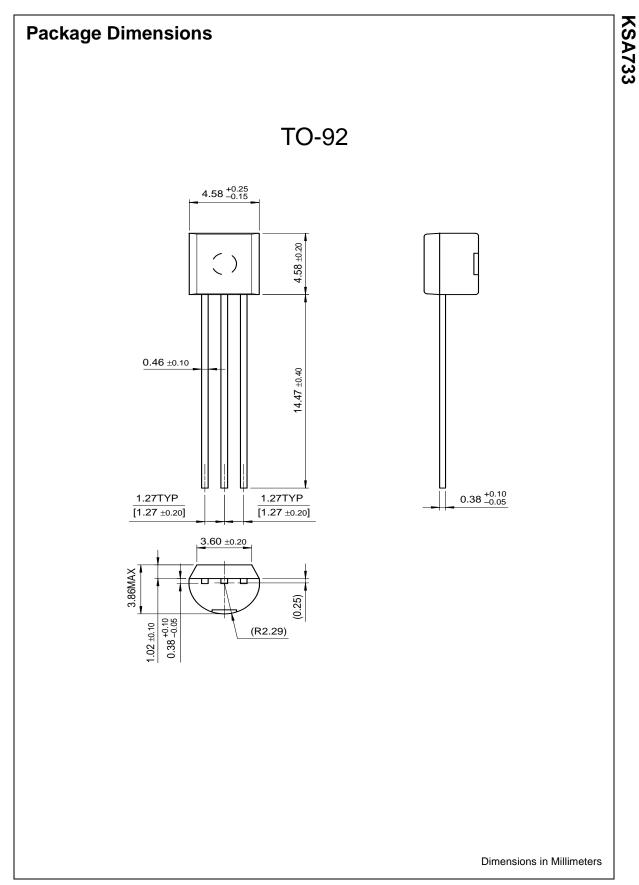
Rev. A2, September 2002

KSA733



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Programmable Active Droop™	OPTOPLANAR™	SMART START™	

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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