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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	Units	
V _{CBO}	Collector-Base Voltage	-60	V	
V _{CEO}	Collector-Emitter Voltage	-50	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
С	Collector Current	-150		
Pc	Collector Power Dissipation	250	mW	
Г _Ј	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ 150	°C	

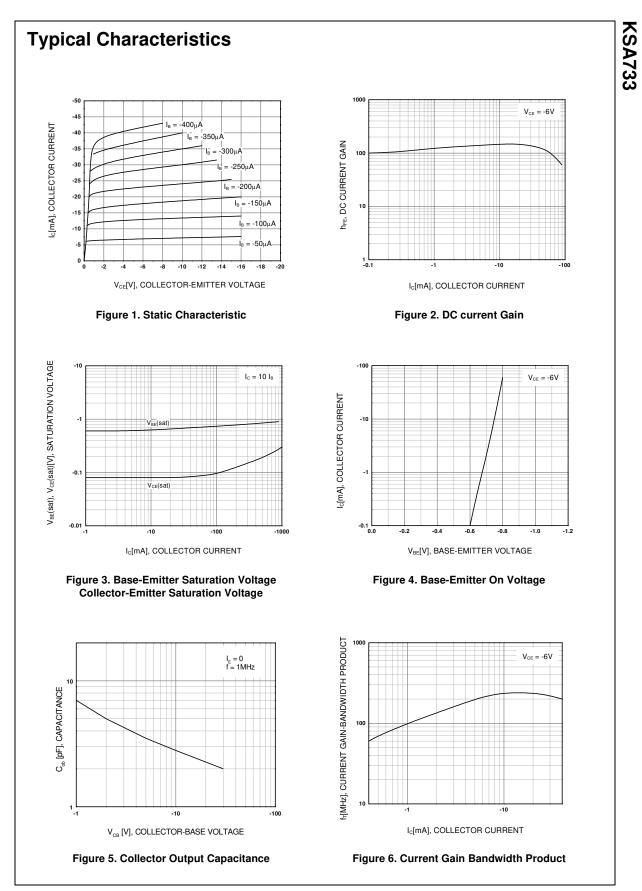
Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

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 = -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
Cob	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

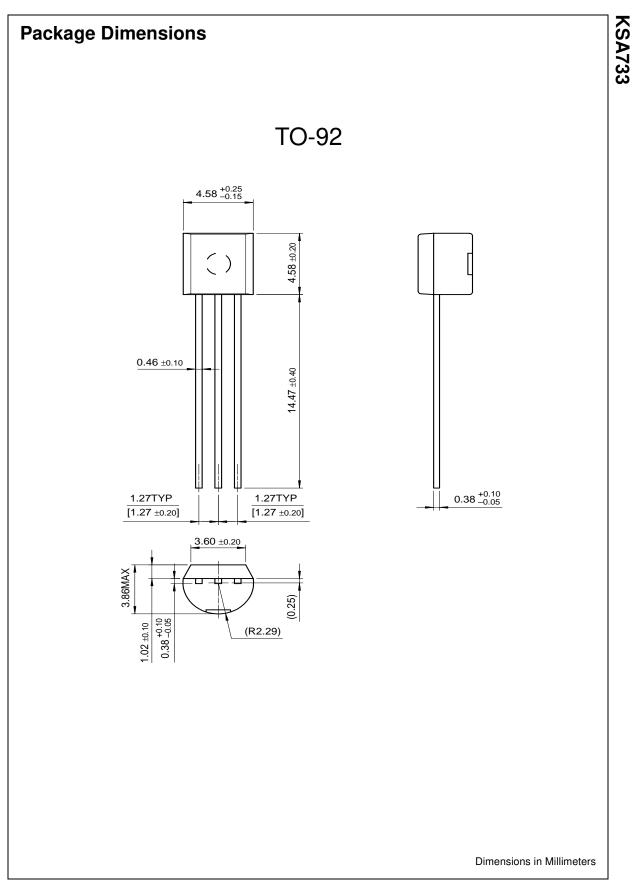
Classification	R	0	Y	G	L
h _{FE}	40 ~ 80	70 ~ 140	120 ~ 240	200 ~ 400	350 ~ 700

KSA733



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