FAIRCHILD

SEMICONDUCTOR®

KSA1015

LOW FREQUENCY AMPLIFIER

- Collector-Base Voltage : V_{CBO} = -50V
- Complement to KSC1815



PNP Epitaxial Silicon Transistor

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

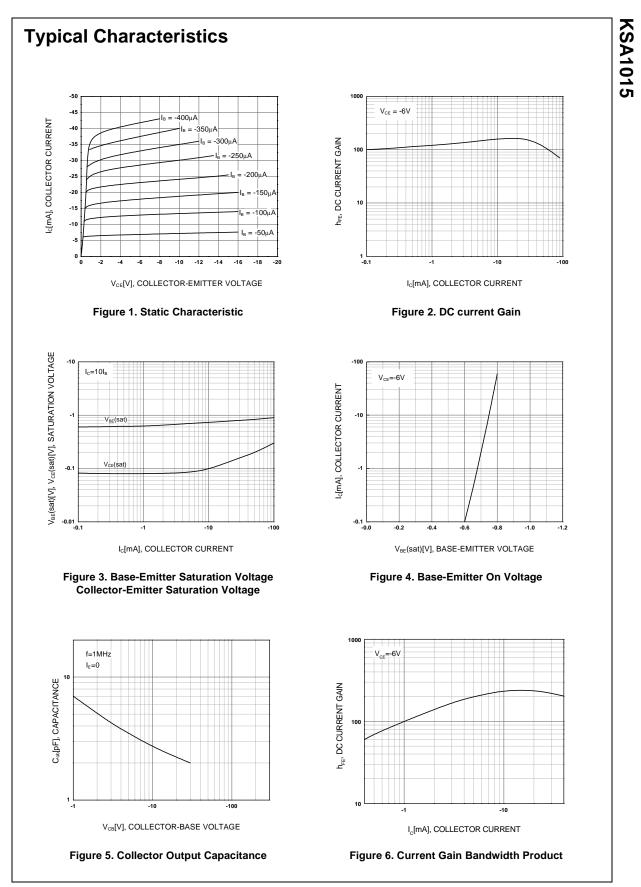
Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	-50	V	
V _{CEO}	Collector-Emitter Voltage	-50	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
I _C	Collector Current	-150	mA	
I _B	Base Current	-50	mA	
P _C	Collector Power Dissipation	400	mW	
TJ	Junction Temperature	125	°C	
T _{ST9}	Storage Temperature	-65 ~ 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	-50			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} = -50V, I _E =0			-0.1	μA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5V, I _C =0			-0.1	μA
h _{FE1} h _{FE2}	DC Current Gain	V_{CE} = -6V, I _C = -2mA V _{CE} = -6V, I _C = -150mA	70 25		400	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -100mA, I _B = -10mA		-0.1	-0.3	V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -100mA, I _B = -10mA			-1.1	V
f _T	Current Gain Bandwidth Product	V _{CE} = -10V, I _C =-1mA	80			MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz		4	7	pF
NF	Noise Figure	V_{CE} = -6V, I _C = -0.1mA f=100Hz, R _G =10k Ω		0.5	6	dB

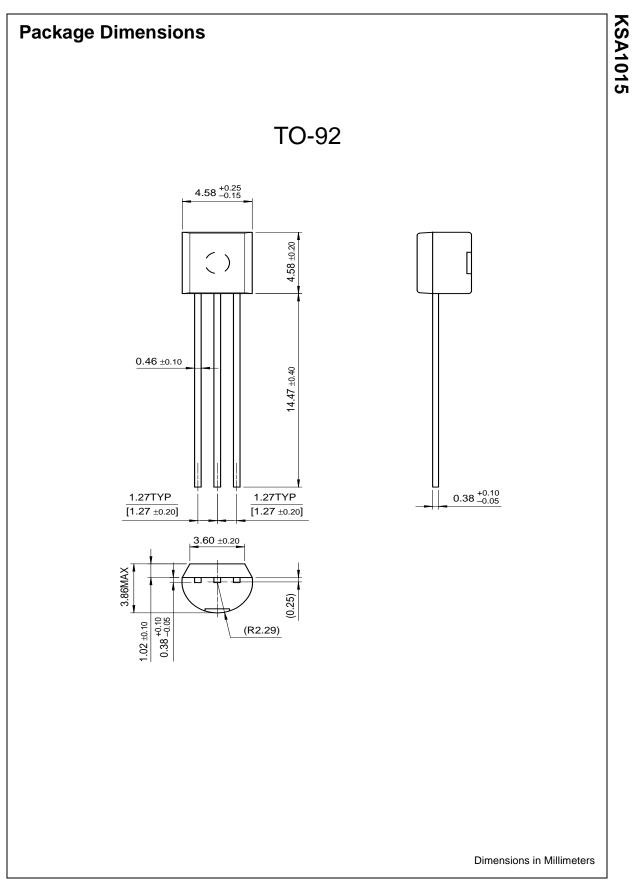
h_{FE} Classification

Classification	0	Y	GR
h _{FE1}	70 ~ 140	120 ~ 240	200 ~ 400



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