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FAIRCHILD

SEMICONDUCTOR®

KSA931

Low Frequency Amplifier & Medium Speed Switching

- Complement to KSC2331
- Collector-Base Voltage : V_{CBO}= -80V
- Collector Power Dissipation : P_C=1W



1. Emitter 2. Collector 3. Base

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V _{CBO}	Collector-Base Voltage	-80	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-8	V
I _C	Collector Current	-700	mA
P _C	Collector Power Dissipation	1	W
ТJ	Junction Temperature	150	°C
Т _{STG}	Storage Temperature	-55 ~ 150	°C

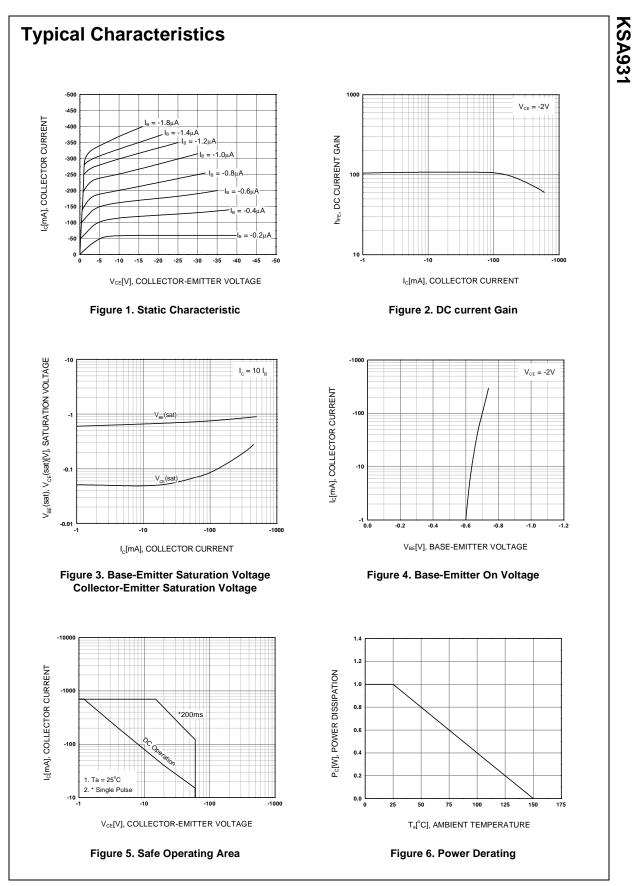
Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E =0	-80			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0	-60			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -100μΑ, I _C =0	-8			V
I _{CBO}	Collector Cut-off Current	V _{CB} = -60V, I _E =0			-0.1	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5V, I _C =0			-0.1	μΑ
h _{FE}	* DC Current Gain	V _{CE} = -2V, I _C = -50mA	40		240	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA		-0.3	-0.7	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = -500mA, I _B = -50mA		-0.9	-1.2	V
f _T	Current Gain Bandwidth Productor	V _{CE} = -10V, I _C = -50mA		100		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz		13		pF

* Pulse Test: PW≤350µs, Duty cycle≤2%

h_{FE} Classification

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



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