

KSB810

Audio Frequency Amplifier • Complement to KSD1020



1.Emitter 2. Collector 3. Base

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	7 3°	Ratings	Units	
V_{CBO}	Collector-Base Voltage	2.12	-30	V	
V _{CEO}	Collector-Emitter Voltage	% " M	-25	V	
V_{EBO}	Emitter-Base Voltage	12 -01	-5.0	V	
lc	Collector Current (DC)		-700	mA	
I _{CP}	* Collector Current (Pulse)		-1.0	Α	
P _C	Collector Power Dissipation		350	mW	
T _J	Junction Temperature		150	°C	
T _{STG}	Storage Temperature		-55 ~ 150	°C	

^{*} PW≤10ms, Duty cycle≤50%

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I _{CBO}	Collector Cut-off Current	V _{CB} = -30V, I _E =0			-100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -5V, I _C =0			-100	nA
h _{FE1}	* DC Current Gain	V _{CE} = -1V, I _C = -100mA	70	200	400	
h_{FE2}		V_{CE} = -1V, I_{C} = -700mA	35	100		
V _{BE} (on)	* Base-Emitter on Voltage	V_{CE} = -6V, I_{C} = -10mA	-600	-640	-700	mV
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	$I_C = -700 \text{mA}, I_B = -70 \text{mA}$		-0.25	-0.4	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	$I_C = -700 \text{mA}, I_B = -70 \text{mA}$		-0.95	-1.2	V
C _{ob}	Output Capacitance	V_{CB} = -6V, I_{E} =0, f=1MHz		17	40	pF
f _T	Current Gain Bandwidth Product	V _{CE} = -6V, I _C =-10mA	50	160		MHz

^{*} Pulse Test: PW≤350μs, Duty cycle≤2%

h_{FE} Classification

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

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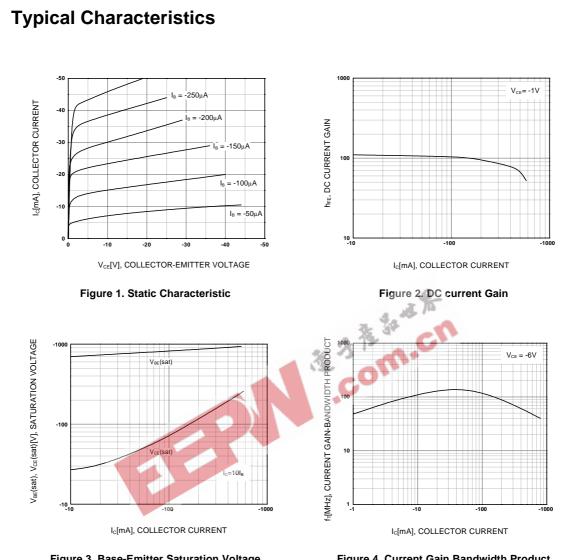
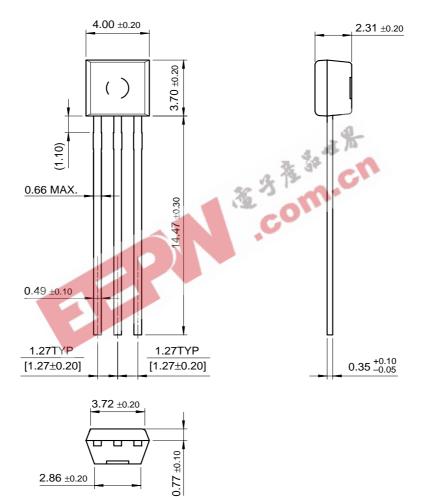


Figure 3. Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

Figure 4. Current Gain Bandwidth Product

Package Demensions

TO-92S



Dimensions in Millimeters

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