FAIRCHILD

SEMICONDUCTOR®

KSC2316

Audio Power Amplifier Applications

- Driver Stage Amplifier
- Complement to KSA916



NPN Epitaxial Silicon Transistor

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

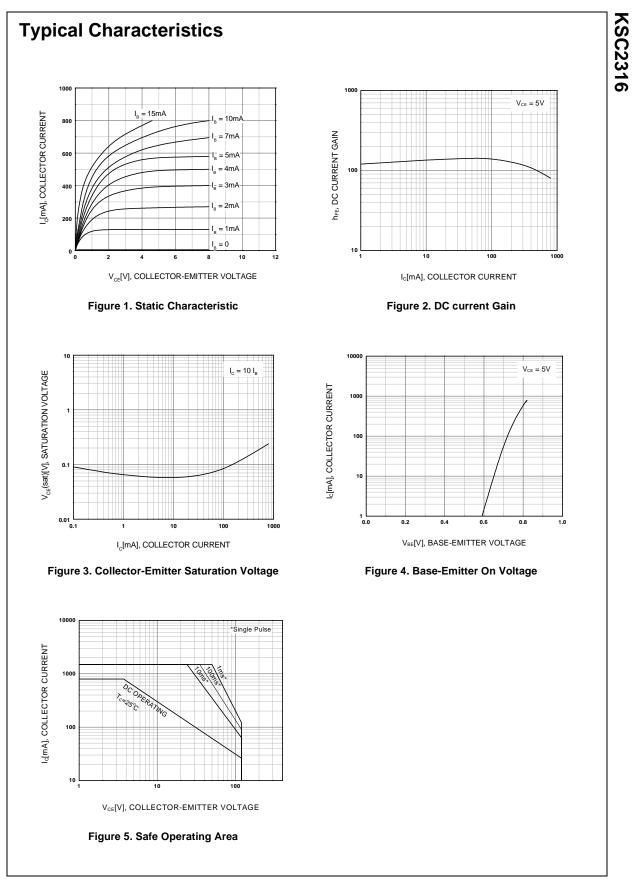
Symbol	Parameter	Ratings	Units	
V _{CBO}	Collector-Base Voltage	120	V	
V _{CEO}	Collector-Emitter Voltage	120	V	
V _{EBO}	Emitter-Base Voltage	5	V	
l _C	Collector Current	800	mA	
P _C	Collector Power Dissipation	900	mW	
Тј	Junction Temperature	150	°C	
T _{STG}	Storage Temperature	-55 ~ +150	°C	

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

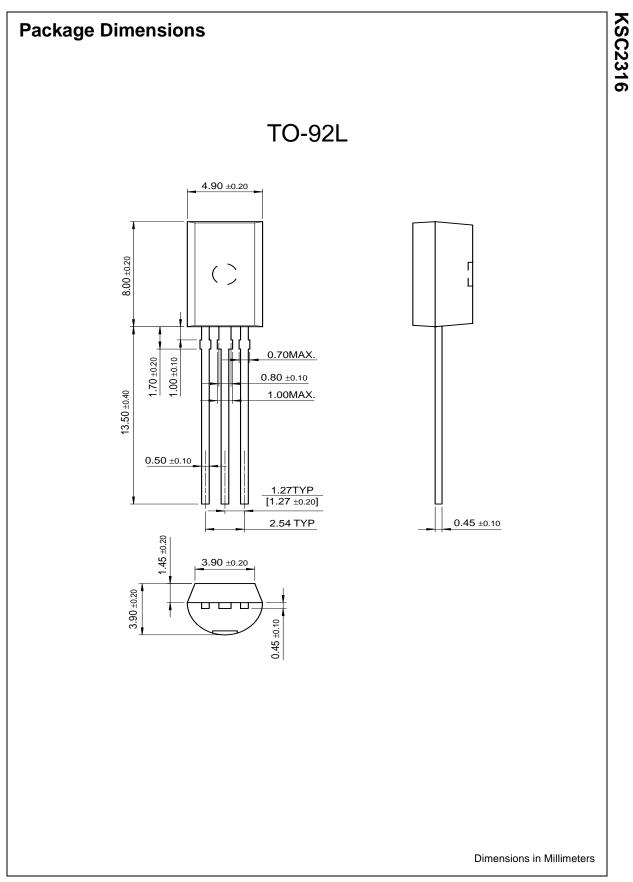
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =1mA, I _E =0	120			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0	120			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =1mA, I _C =0	5			V
I _{CBO}	Collector Cut-off Current	V _{CB} =120V, I _E =0			0.1	μΑ
h _{FE1} h _{FE2}	DC Current Gain	V _{CE} =5V, I _C =10mA V _{CE} =5V, I _C =100mA	60 80		240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =500mA, I _B =50mA			1	V
f _T	Current Gain Bandwidth Product	V _{CE} =5V, I _C =100mA		120		MHz
C _{ob}	Collector Output Capacitance	V _{CB} =10V,I _E =0, f=1MHz			30	pF

h_{FE} Classification

Classification	0	Y	
h _{FE2}	80-160	120-240	



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