

KSA916

Audio Power Amplifier

- Driver Stage Amplifier
- Complement to KSC2316



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	-120	V
V _{CEO}	Collector-Emitter Voltage	-120	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-800	mA
P _C	Collector Power Dissipation	900	mW
TJ	Junction Temperature	150	°C
T _{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 = -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}	DC Current Gain	V_{CE} = -5V, I_{C} = -10mA	60			
h_{FE2}		$V_{CE} = -5V, I_{C} = -100mA$	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}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz			40	pF

h_{FE} Classification

Classification	0	Υ
h _{FE}	80 ~ 160	120 ~ 240

Typical Characteristics

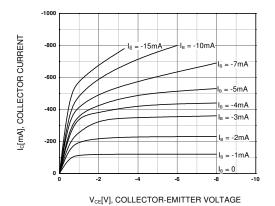


Figure 1. Static Characteristic

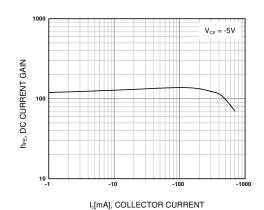


Figure 2. DC current Gain

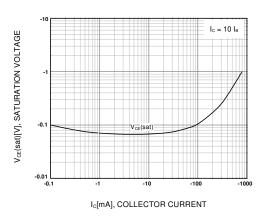


Figure 3. Collector-Emitter Saturation Voltage

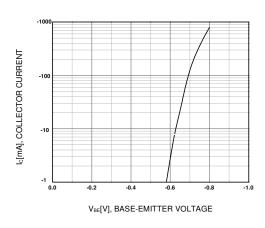


Figure 4. Base-Emitter On Voltage

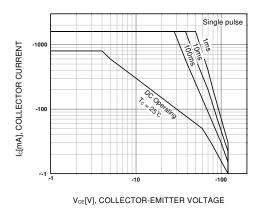


Figure 5. Safe Operating Area

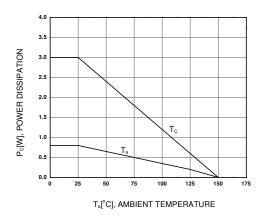
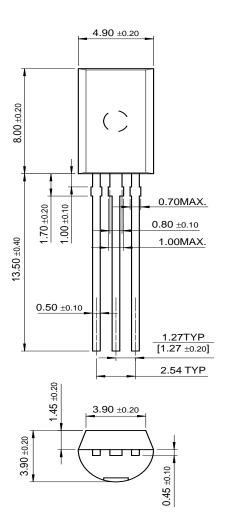


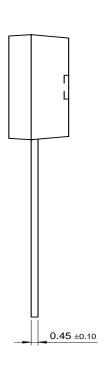
Figure 6. Power Derating

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Package Demensions

TO-92L





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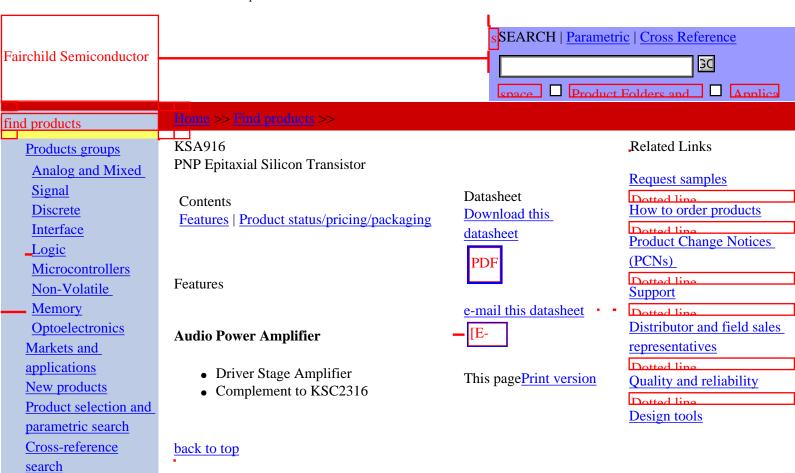
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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
KSA916YBU	Full Production	\$0.103	TO-92	3	BULK
KSA916YTA	Full Production	\$0.103	TO-92	3	TAPE REEL
KSA916OBU	Full Production	\$0.103	TO-92	3	BULK

^{* 1,000} piece Budgetary Pricing

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