

SEMICONDUCTOR®

# **KSA928A**

## **Audio Power Amplifier**

- Complement to KSC2328A
- Collector Power Dissipation : P<sub>C</sub>=1W
- 3 Watt Output Application



### 1. Emitter 2. Collector 3. Base

# **PNP Epitaxial Silicon Transistor**

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

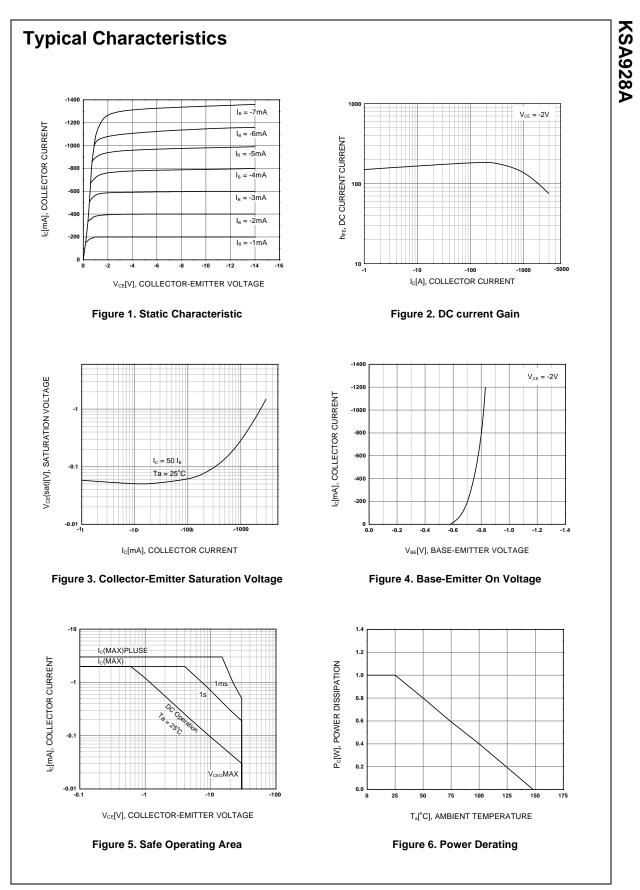
Symbol	Parameter	Ratings	Units	
V <sub>CBO</sub>	Collector-Base Voltage	-30	V	
V <sub>CEO</sub>	Collector-Emitter Voltage	-30	V	
V <sub>EBO</sub>	Emitter-Base Voltage	-5	V	
I <sub>C</sub>	Collector Current	-2	Α	
P <sub>C</sub>	Collector Power Dissipation	1	W	
ТJ	Junction Temperature	150	°C	
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C	

### Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> = -100μA, I <sub>E</sub> =0	-30			V
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>C</sub> = -10mA, I <sub>B</sub> =0	-30			V
BV <sub>EBO</sub>	Emitter-Base Breakdown Voltage	I <sub>E</sub> = -1mA, I <sub>C</sub> =0	-5			V
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> = -30V, I <sub>E</sub> =0			-100	nA
I <sub>EBO</sub>	Emitter Cut-off Current	V <sub>EB</sub> = -5V, I <sub>C</sub> =0			-100	nA
h <sub>FE</sub>	DC Current Gain	V <sub>CE</sub> = -2V, I <sub>C</sub> = -500mA	100		320	
V <sub>BE</sub> (on)	Base-Emitter On Voltage	V <sub>CE</sub> = -2V, I <sub>C</sub> = -500mA			-1.0	V
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = -1.5A, I <sub>B</sub> = -30mA			-2.0	V
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> = -10V, I <sub>E</sub> =0, f=1MHz		48		pF
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> = -2V, I <sub>C</sub> = -500mA		120		MHz

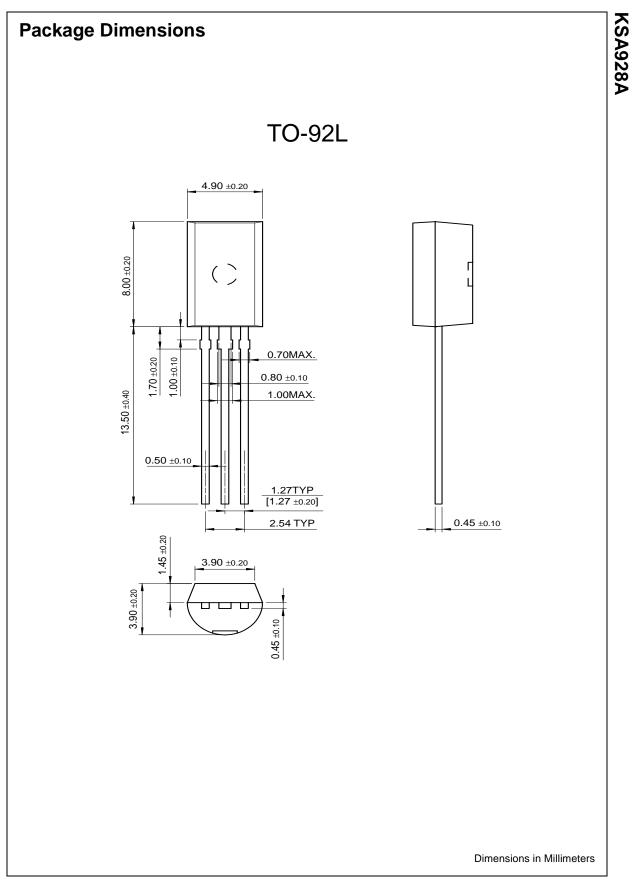
# h<sub>FE</sub> Classification

Classification	0	V	
	100_200	160 320	
n <sub>FE</sub>	100 ~ 200	160 ~ 320	



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