

KSA1281

Audio Power Amplifier

- Collector Power Dissipation : P_C=1W WWW.DZSC.COM
- 3 Watt Output Application



1. Emitter 2. Collector 3. Base

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Ratings	Units
V_{CBO}	Collector-Base Voltage	-50	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current	-2	А
P _C	Collector Power Dissipation	1	W
T _J	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 = -100, I _E =0	-50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0	-50			V
BV _{EBO}	Emitter-Base Breakdown Voltage	I_E = -1mA, I_C =0	-5			V
I _{CBO}	Collector Cut-off Current	$V_{CB} = -50V, I_{E} = 0$			-100	nA
I _{EBO}	Emitter Cut-off Current	V_{EB} = -5V, I_{C} =0			-100	nA
h _{FE1}	DC Current Gain	V_{CE} = -2V, I_{C} = -500mA V_{CE} = -2V, I_{C} = -1.5A	70 40		240	工版
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -1A, I _B = -0.05mA			-1.2	V
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -1A, I _B = -0.05mA			-0.5	V
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1MHz		40		pF
f _T	Current Gain Bandwidth Product	$V_{CE} = -2V, I_{C} = -500 \text{mA}$		100		MHz

h_{FE1} Classification

Classification	0	Υ
h _{FE1}	70 ~ 140	120 ~ 240

Typical Characteristics

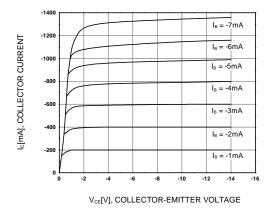


Figure 1. Static Characteristic

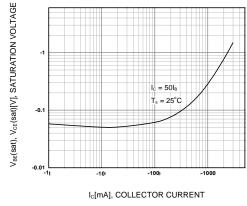


Figure 2. Base-Emitter Saturation Voltage

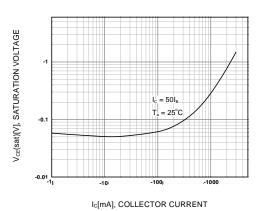


Figure 3. Collector-Emitter Saturation Voltage

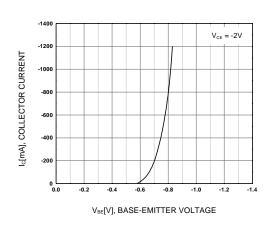


Figure 4. Base-Emitter On Voltage

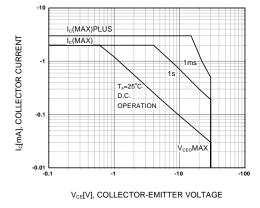


Figure 5. Safe Operating Area

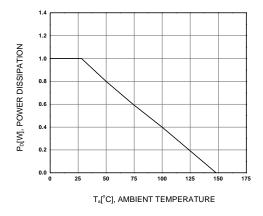
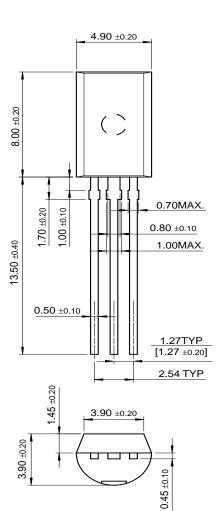


Figure 6. Power Derating

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Package Demensions

TO-92L





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