

## **KSB834W**

## **Low Frequency Power Amplifier**

Complement to KSD880W



1.Base 2.Collector 3.Emitter

## **PNP Silicon Epitaxial Transistor**

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

Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	- 60	V
V <sub>CEO</sub>	Collector-Emitter Voltage	- 60	V
V <sub>EBO</sub>	Emitter-Base Voltage	- 7	V
I <sub>C</sub>	Collector Current	- 3	Α
I <sub>B</sub>	Base Current	- 0.5	Α
P <sub>C</sub>	Collector Dissipation (T <sub>C</sub> =25°C)	30	W
P <sub>C</sub>	Collector Dissipation (T <sub>a</sub> =25°C)	1.5	W
T <sub>J</sub>	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	- 55 ~ 150	°C

## $\textbf{Electrical Characteristics} \ \, \textbf{T}_{\text{C}} = 25 ^{\circ} \text{C unless otherwise noted}$

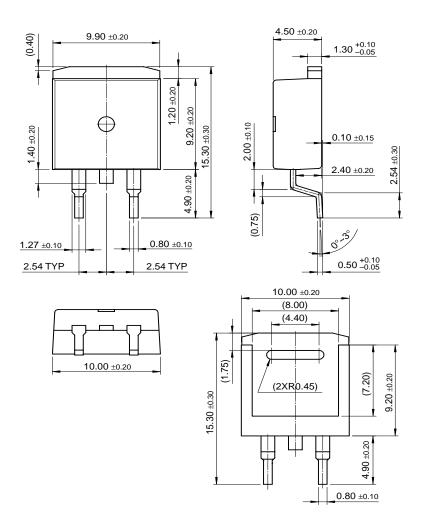
Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
I <sub>CBO</sub>	Collector Cut-off Current	$V_{CB} = -60V, I_{E} = 0$			- 100	μΑ
I <sub>EBO</sub>	Emitter Cut-off Current	$V_{EB} = -7V, I_{C} = 0$			- 100	μΑ
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	$I_C = -50 \text{mA}, I_B = 0$	- 60			V
h <sub>FE1</sub> h <sub>FE2</sub>	DC Current Gain	$V_{CE} = -5V, I_{C} = -0.5A$ $V_{CE} = -5V, I_{C} = -3A$	60 20		200	
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> = - 3A, I <sub>B</sub> = - 0.3A		- 0.5	- 1	V
V <sub>BE</sub> (on)	Base-Emitter ON Voltage	$V_{CE} = -5V, I_{C} = -0.5A$		- 0.7	- 1	V
f <sub>T</sub>	Current Gain Bandwidth Product	$V_{CE} = -5V, I_{C} = -0.5A$		9		MHz
C <sub>ob</sub>	Output Capacitance	$V_{CB} = -10V, I_{E} = 0$ f = 1MHz		150		pF
t <sub>ON</sub>	Turn ON Time	$V_{CC} = -30V, I_{C} = -1A$		0.4		μs
t <sub>STG</sub>	Storage Time	$I_{B1} = -I_{B2} = -0.2A$		1.7		μs
t <sub>F</sub>	Fall Time	$R_L = 30\Omega$		0.5		μs

## **h**<sub>FE</sub> Classification

Classification	0	Y	
h <sub>FE1</sub>	60 ~ 120	100 ~ 200	

## **Package Demensions**

# D<sup>2</sup>-PAK



Dimensions in Millimeters

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