

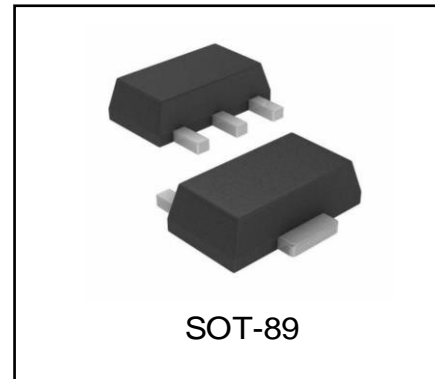
## PNP Silicon Transistor

## Features

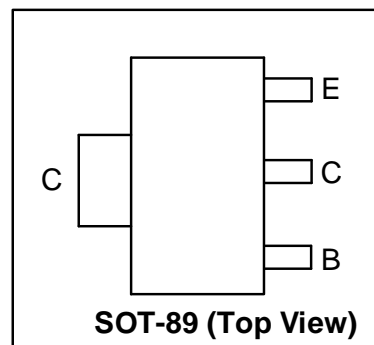
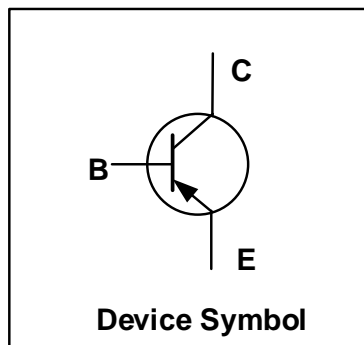
- Complementary to WT8110
- Driver Stages of Audio Amplifiers
- Ideal for Low Power Amplification and Switching

## Mechanical Characteristics

- SOT-89 Package
- Marking : Making Code
- RoHS Compliant



## Schematic &amp; PIN Configuration



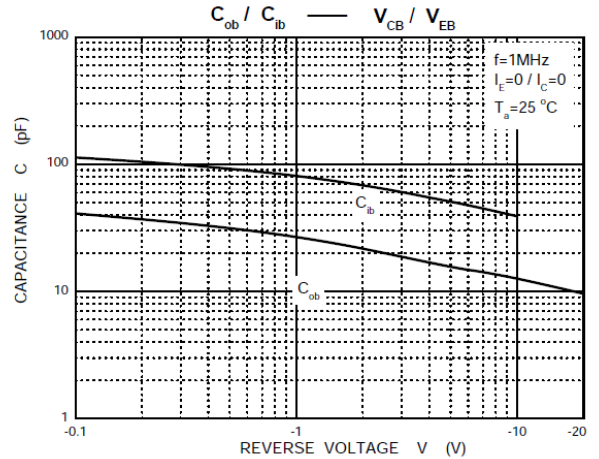
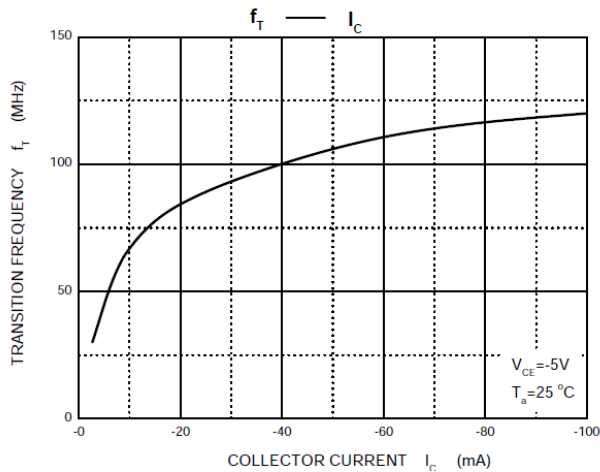
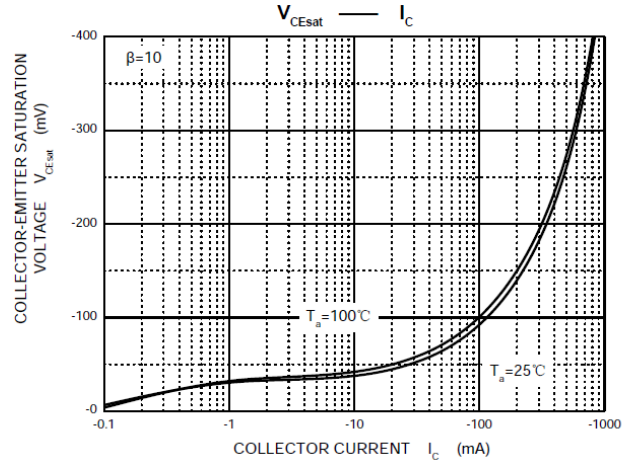
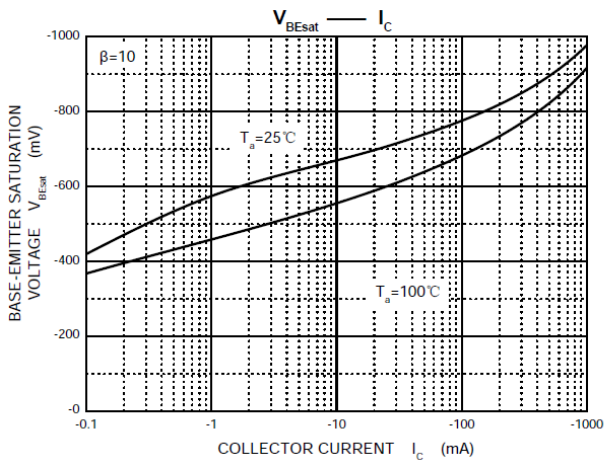
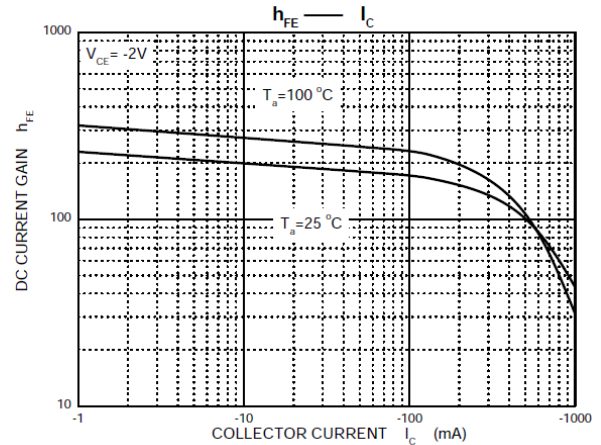
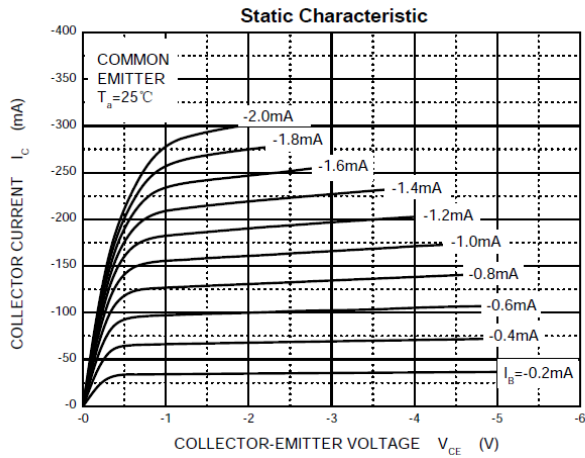
## Absolute Maximum Rating

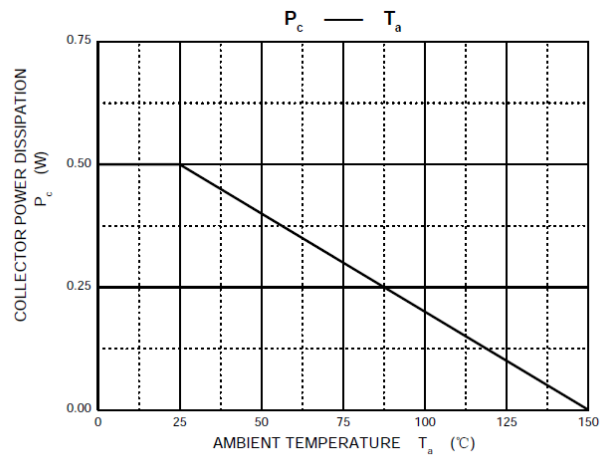
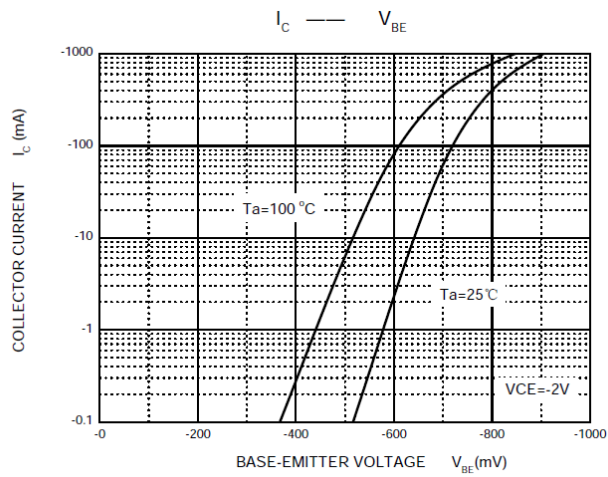
Parameter	Symbol	Value	Unit
Collector Base Voltage	$V_{CB0}$	-100	V
Collector Emitter Voltage	$V_{CE0}$	-80	V
Emitter Base Voltage	$V_{EB0}$	-5	V
Collector Current	$I_c$	-1	A
Collector Power Dissipation	$P_c$	500	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 ~ 150	°C
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	250	°C/W

**Electrical Characteristics** ( $T_{amb}=25^{\circ}\text{C}$  unless otherwise noted)

Parameter	Symbol	Test Conditions	Min.	Typ.	Max.	Unit
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C = -100\mu\text{A}, I_E = 0$	-100	-	-	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -10\text{mA}, I_B = 0$	-80	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -100\mu\text{A}, I_C = 0$	-5	-	-	V
Collector Cut-off Current	$I_{CBO}$	$V_{CB} = -30\text{V}, I_E = 0$	-	-	-100	nA
Emitter Cut-off Current	$I_{EBO}$	$V_{EB} = -5\text{V}, I_C = 0$	-	-	-100	nA
DC Current Gain	$h_{FE(1)}$	$V_{CE} = -2\text{V}, I_C = -5\text{mA}$	63	-	-	-
	$h_{FE(2)}$	$V_{CE} = -2\text{V}, I_C = -150\text{mA}$	100	-	250	-
	$h_{FE(3)}$	$V_{CE} = -2\text{V}, I_C = -500\text{mA}$	40	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -500\text{mA}, I_B = -50\text{mA}$	-	-	-0.5	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE} = -2\text{V}, I_C = -500\text{mA}$	-	-	-1	V
Transition Frequency	$f_T$	$V_{CE} = -5\text{V}, I_C = -10\text{mA}, f = 100\text{MHz}$	-	50	-	MHz

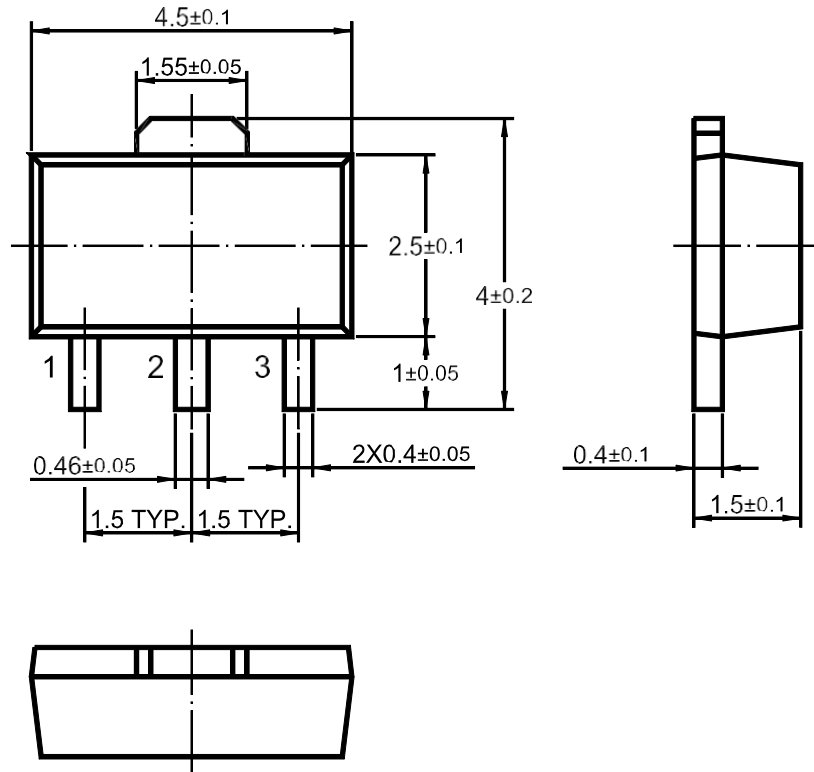
Typical Characteristics





Outline Drawing – SOT-89

PACKAGE OUTLINE



Dimensions in mm

Marking Codes

Part Number	WT9110
Marking Code	AL

Package Information

Qty: 1k/Reel

CONTACT INFORMATION

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For additional information, please contact your local Sales Representative.

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*Specifications are subject to change without notice.  
The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.  
Users should verify actual device performance in their specific applications.*