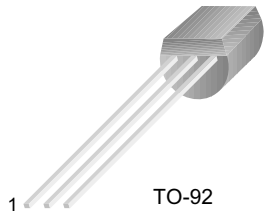
Jameco Part Number 1201525

FAIRCHILD
SEMICONDUCTOR TM

2N5550

Amplifier Transistor

- Collector-Emitter Voltage: V_{CEO}= 140V
- Collector Dissipation: P_C (max)=625mW



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1. Emitter 2. Base 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	160	V
V_{CEO}	Collector-Emitter Voltage	140	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current	600	mA
P_C	Collector Dissipation	625	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 ~ 150	°C

• Refer to 2N5551 for graphs

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	I_C=100μA, I_E=0	160			V
BV_{CEO}	* Collector-Emitter Breakdown Voltage	I_C=1mA, I_B=0	140			V
BV_{EBO}	Emitter-Base Breakdown Voltage	I_E=10μA, I_C=0	6			V
I_{CBO}	Collector Cut-off Current	V_{CB}=100V, I_E=0			100	nA
I_{EBO}	Emitter Cut-off Current	V_{EB}= 4V, I_C=0			50	nA
h_{FE}	* DC Current Gain	I_C=1mA, V_{CE}=5V I_C=10mA, V_{CE}=5V I_C=50mA, V_{CE}=5V	60 60 20		 250 	
V_{CE} (sat)	* Collector-Emitter Saturation Voltage	I_C=10mA, I_B=1mA I_C=50mA, I_B=5mA			0.15 0.25	V V
V_{BE} (sat)	* Base-Emitter Saturation Voltage	I_C=10mA, I_B=1mA I_C=50mA, I_B=5mA			1 1.2	V V
f_T	Current Gain Bandwidth Product	I_C=10mA, V_{CE}=10V, f=100MHz	100		300	MHz
C_{ob}	Output Capacitance	V_{CB}=10V, I_E=0, f=1MHz			6	pF
NF	Noise Figure	I_C=250μA, V_{CE}=5V R_S=1KΩ f=10Hz to 15.7KHz			10	dB

* Pulse Test: Pulse Width≤300μs, Duty Cycle≤2%

Package Demensions

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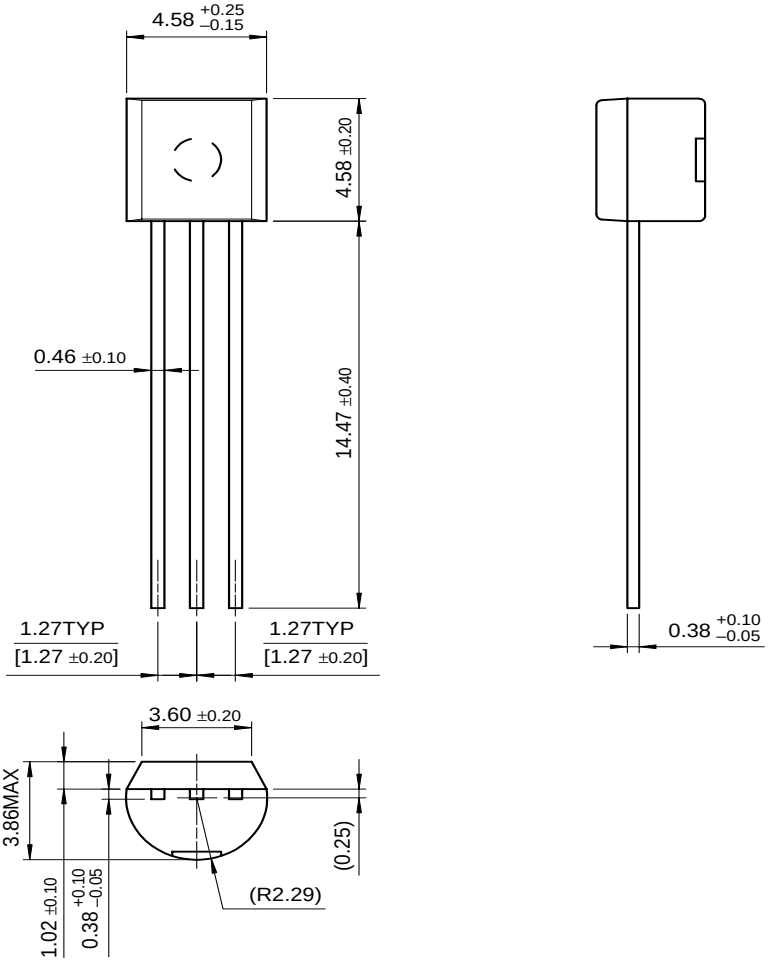

Dimensions in Millimeters

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