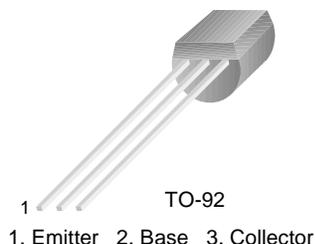


KSP6520/6521

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Amplifier Transistor

- Collector-Emitter Voltage: $V_{CE0}=25V$
- Collector Power Dissipation: P_C (max)=625mW
- Refer to 2N3904 for graphs



NPN Epitaxial Silicon Transistor

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

Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	25	V
V_{EBO}	Emitter-Base Voltage	4	V
I_C	Collector Current	100	mA
P_C	Collector Power Dissipation	625	mW
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	-55 ~ 150	$^\circ C$

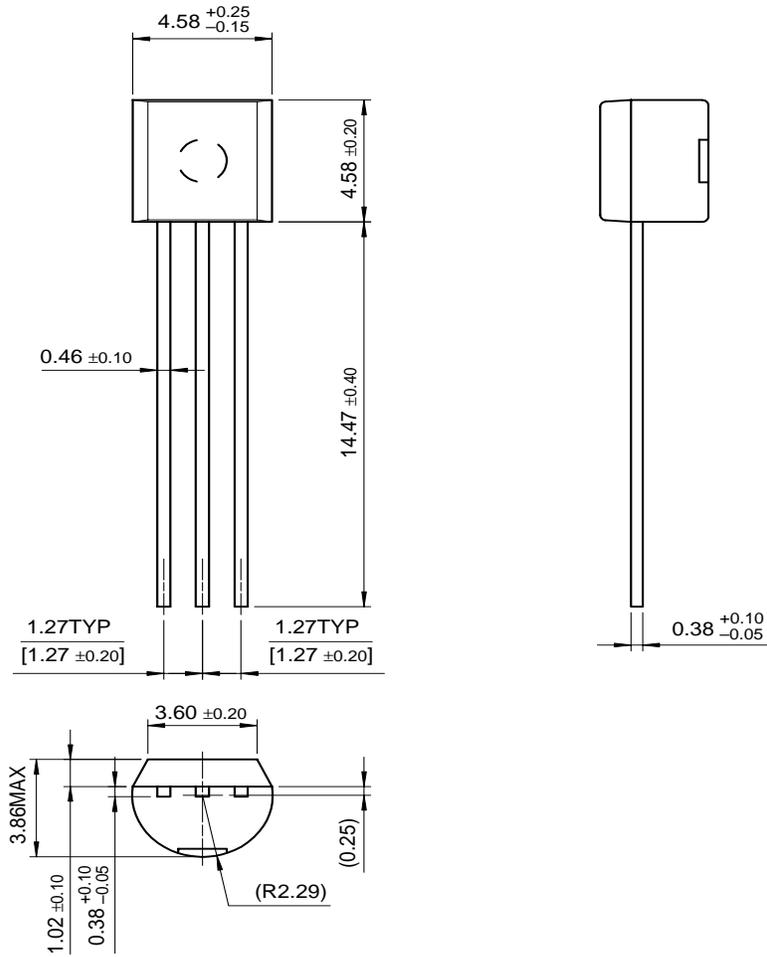
Electrical Characteristics $T_a=25^\circ C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ1	Max.	Units
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C=0.5mA, I_B=0$	25			V
BV_{EBO}	Emitter Base Breakdown Voltage	$I_C=10, I_C=0$	4			V
I_{CBO}	Collector Cut-off Current	$V_{CB}=30V, I_E=0$ $V_{CE}=20V, I_E=0$			50 50	nA nA
h_{FE}	DC Current Gain	$I_C=100\mu A, V_{CE}=10V$ $I_C=2mA, V_{CE}=10V$	100 150 200 300		400 600	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C=50mA, I_B=5mA$			0.5	V
C_{ob}	Output Capacitance	$V_{CB}=10V, I_E=0$ $f=100KHz$			3.5	pF
NF	Noise Figure	$I_C=10\mu A, V_{CE}=5V$ $R_S=10K\Omega$ $f=10Hz$ to 10KHz			3	dB

Package Dimensions

KSP6520/6521

TO-92



Dimensions in Millimeters

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Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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KSP6520

NPN Epitaxial Silicon Transistor

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Product status/pricing/package

Product	Product status	Pricing*	Package type	Leads	Packing method
KSP6520BU	Full Production	\$0.045	TO-92	3	BULK

* 1,000 piece Budgetary Pricing

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Features

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Product status/pricing/packageing

Product	Product status	Pricing*	Package type	Leads	Packing method
KSP6521BU	Full Production	\$0.045	TO-92	3	BULK
KSP6521NBU	Full Production	\$0.045	TO-92	3	BULK

* 1,000 piece Budgetary Pricing

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