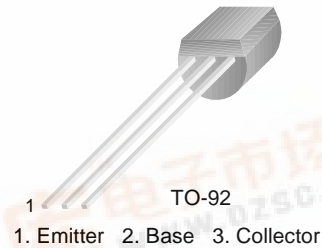




KSP6520/6521

Amplifier Transistor

- Collector-Emitter Voltage: $V_{CE0}=25V$
- Collector Power Dissipation: $P_C (max)=625mW$



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	$^{\circ}C$

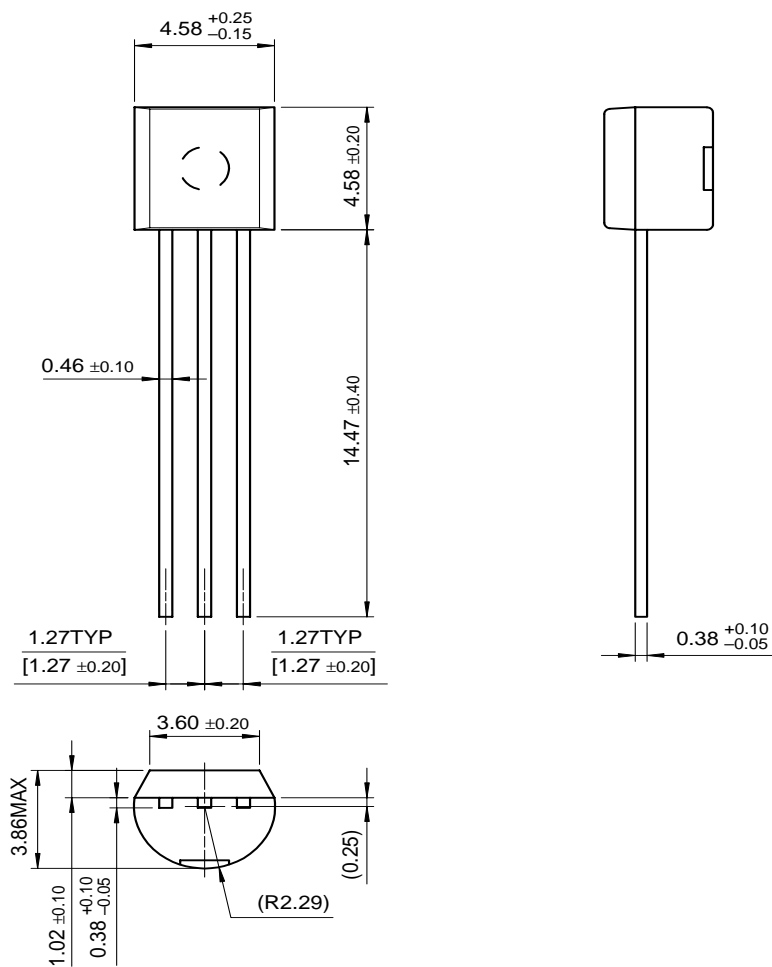
Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

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

KSP6520/6521

Package Dimensions

TO-92



Dimensions in Millimeters

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Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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PRODUCT STATUS DEFINITIONS

Definition of Terms

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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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