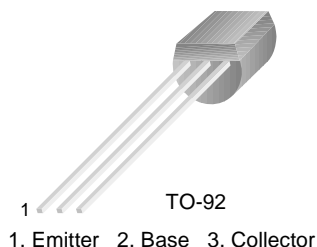


# KSP6520/6521

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

# Package Dimensions

## TO-92

KSP6520/6521



Dimensions in Millimeters

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The Power Franchise <sup>™</sup>		OPTOLOGIC <sup>®</sup>	SILENT SWITCHER <sup>®</sup>	VCX <sup>™</sup>
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