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Ordering Information

Part Number	Top Mark	Package	Packing Method
KSP55TA	KSP55	TO-92 3L	Ammo
KSP56TA	KSP56	TO-92 3L	Ammo

Absolute Maximum Ratings

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only. Values are at $T_A = 25^{\circ}$ C unless otherwise noted.

Symbol	Parameter		Value	Unit	
N	Callester Dess Valters	KSP55	-60	N	
V _{CBO}	Collector-Base Voltage	KSP56	-80	V	
M	Collector Emitter Voltogo	KSP55	-60	V	
V _{CEO}	Collector-Emitter Voltage	KSP56	-80	V	
V _{EBO}	Emitter-Base Voltage		-4	V	
۱ _C	Collector Current		-500	mA	
P _C	Collector Power Dissipation	625	mW		
ТJ	Junction Temperature	150	°C		
T _{STG}	Storage Temperature	-55 to 150	°C		

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KSP55 / KSP56 — PNP Epitaxial Silicon Transistor

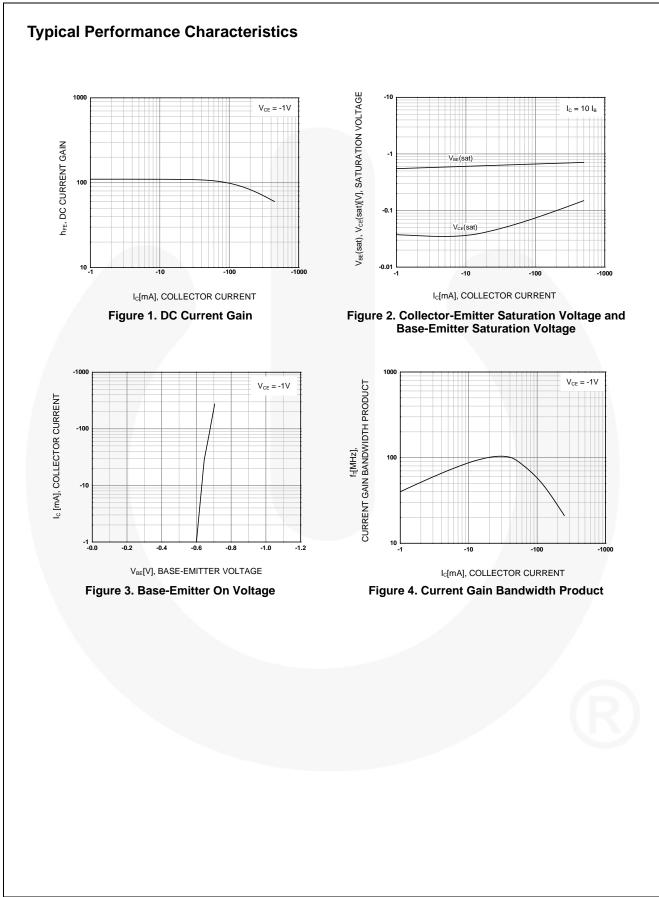
Electrical Characteristics

Values are at $T_A = 25^{\circ}C$ unless otherwise noted.

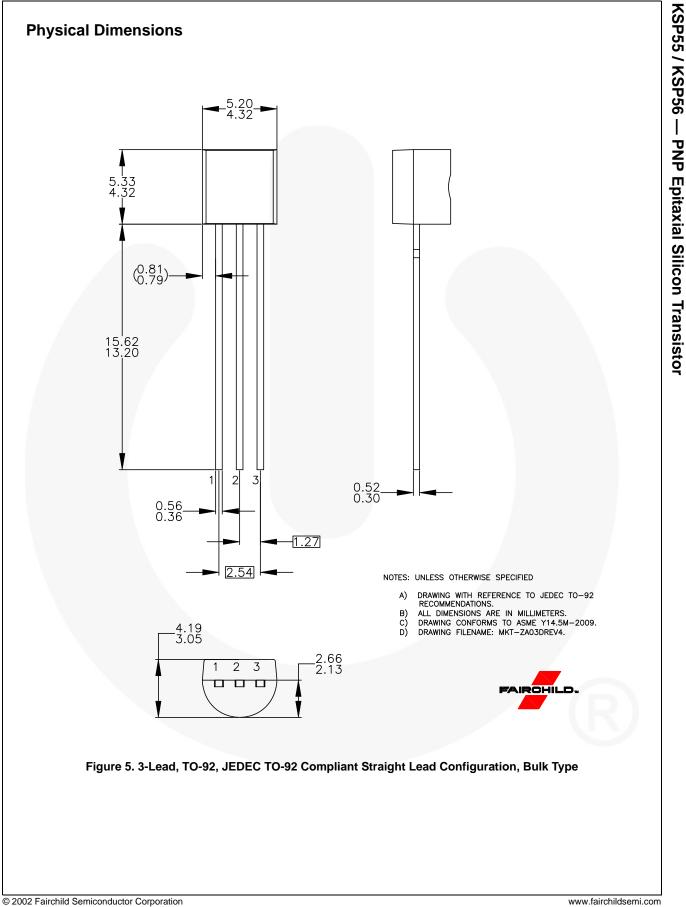
Symbol	Parameter		Parameter Conditions	Min.	Max.	Unit
	Collector-Emitter Breakdown Voltage ⁽¹⁾	KSP55	- I _C = -1 mA, I _B = 0	-60		V
		KSP56		-80		
BV_{EBO}	Emitter-Base Breakdown Voltage		$I_{E} = -100 \ \mu A, \ I_{C} = 0$	-4		V
I _{CBO}	Collector Cut-Off Current	KSP55	$V_{CB} = -60 \text{ V}, I_E = 0$		-0.1	
		KSP56	$V_{CB} = -80 \text{ V}, I_{E} = 0$		-0.1	μA
I _{CEO}	Collector Cut-Off Current		$V_{CE} = -60 \text{ V}, I_{B} = 0$		-0.1	μA
h _{FE} DC Current Ga	DC Current Goin		$V_{CE} = -1 V$, $I_{C} = -10 mA$	50		
	De current Gain		$V_{CE} = -1 V, I_{C} = -100 mA$	50		
V _{CE} (sat)	Collector-Emitter Saturation Voltage		$I_{\rm C} = -100 \text{ mA}, I_{\rm B} = -10 \text{ mA}$		-0.25	V
V _{BE} (on)	Base-Emitter On Voltage		$V_{CE} = -1 V, I_{C} = -100 mA$		-1.2	V
f _T	Current Gain Bandwidth Product		$V_{CE} = -2 V$, $I_{C} = -10 mA$, f = 100 MHz	105		MHz

Note:

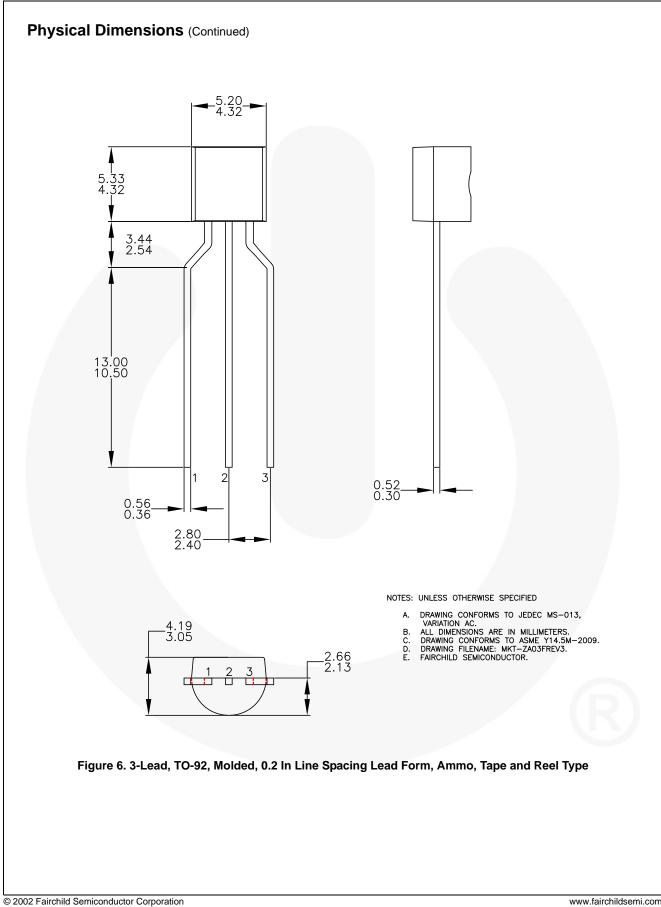
1. Pulse test: pulse width \leq 300 µs, duty cycle \leq 2%.



KSP55 / KSP56 — PNP Epitaxial Silicon Transistor



KSP55 / KSP56 Rev. 1.4



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Datasheet Identification	Product Status	Definition
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Preliminary	First Production	Datasheet contains preliminary data; supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve design.
No Identification Needed	Full Production	Datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice to improve the design.
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