

SEMICONDUCTOR

KSP8598/8599

- Amplifier Transistor Collector-Emitter Voltage: V_{CEO}= KSP8598: 60V
- KSP8599: 80V
- Collector Power Dissipation: P_C (max)=625mW
- Suffix "-C" means Center Collector (1. Emitter 2. Collector 3. Base)

PNP Epitaxial Silicon Transistor



KSP8598/8599

1. Emitter 2. Base 3. Collector

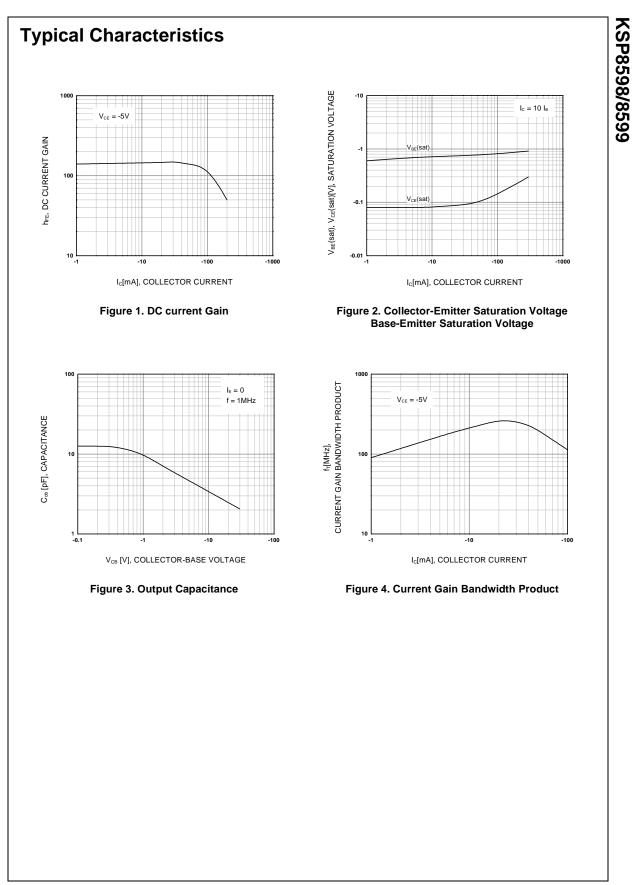
Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage		
	: KSP8598	-60	V
	: KSP8599	-80	V
V _{CEO}	Collector-Emitter Voltage		
	: KSP8598	-60	V
	: KSP8599	-80	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-500	mA
P _C	Collector Power Dissipation	625	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics Ta=25°C unless otherwise noted

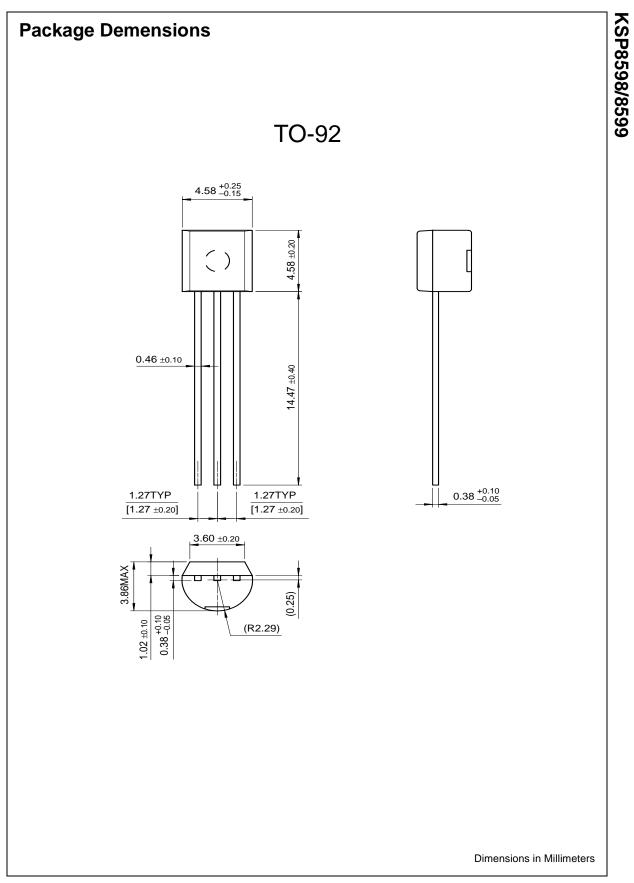
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μA, I _E =0			
	: KSP8598		-60		V
	: KSP8599		-80		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0			
	: KSP8598		-60		V
	: KSP8599		-80		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μΑ, I _C =0	-5		V
I _{CBO}	Collector Cut-off Current				
	: KSP8598	V _{CB} = -60V, I _E =0		-100	nA
	: KSP8599	V _{CB} = -80V, I _E =0		-100	nA
I _{CEO}	Collector Cut-off Current	V _{CE} = -60V, I _B =0		-100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -4V, I _C =0		-100	nA
h _{FE}	* DC Current Gain	V _{CE} = -5V, I _C = -1mA	100	300	
		V _{CE} = -5V, I _C = -10mA	100		
		V _{CE} = -5V, I _C = -100mA	75		
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -100mA, I _B = -5mA		-0.4	V
		I _C = -100mA, I _B = -10mA		-0.3	V
V _{BE} (on)	* Base-Emitter On Voltage				
	: KSP8598	V _{CE} = -5V, I _C = -1mA	-0.5	-0.7	V
	: KSP8599	V _{CE} = -5V, I _C = -10mA	-0.6	-0.8	V
f _T	Current Gain Bandwidth Product	V _{CE} = -5V, I _C = -10mA	150		MHz
		f=100MHz			
Cob	Output Capacitance	V _{CB} = -5V, I _E =0		8	pF
		f=1MHz			

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PRODUCT STATUS DEFINITIONS

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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Amplifier Transistor

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company

Product status/pricing/packaging

KSP8598TAFull Production\$0.05TO-923TAPE REEL	Product	Product status	Pricing*	Package type	Leads	Packing method
	KSP8598TA	Full Production	\$0.05	<u>TO-92</u>	3	TAPE REEL

* 1,000 piece Budgetary Pricing

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Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Packing method
KSP8599TF	Full Production	\$0.05	<u>TO-92</u>	3	TAPE REEL
KSP8599BU	Full Production	\$0.05	<u>TO-92</u>	3	BULK
KSP8599CTA	Full Production	\$0.05	<u>TO-92</u>	3	TAPE REEL
KSP8599TA	Full Production	\$0.05	<u>TO-92</u>	3	TAPE REEL

* 1,000 piece Budgetary Pricing

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