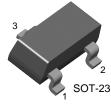
FAIRCHILD

SEMICONDUCTOR®

KST4125

General Purpose Transistor



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25$ °C unless otherwise noted

Symbol	Parameter	Value	Units
/ _{CBO}	Collector-Base Voltage	-30	V
√ _{CEO}	Collector-Emitter Voltage	-30	V
√ _{EBO}	Emitter-Base Voltage	-4	V
с	Collector Current	-200	mA
°c	Collector Power Dissipation	350	mW
T _{STG}	Storage Temperature	150	°C

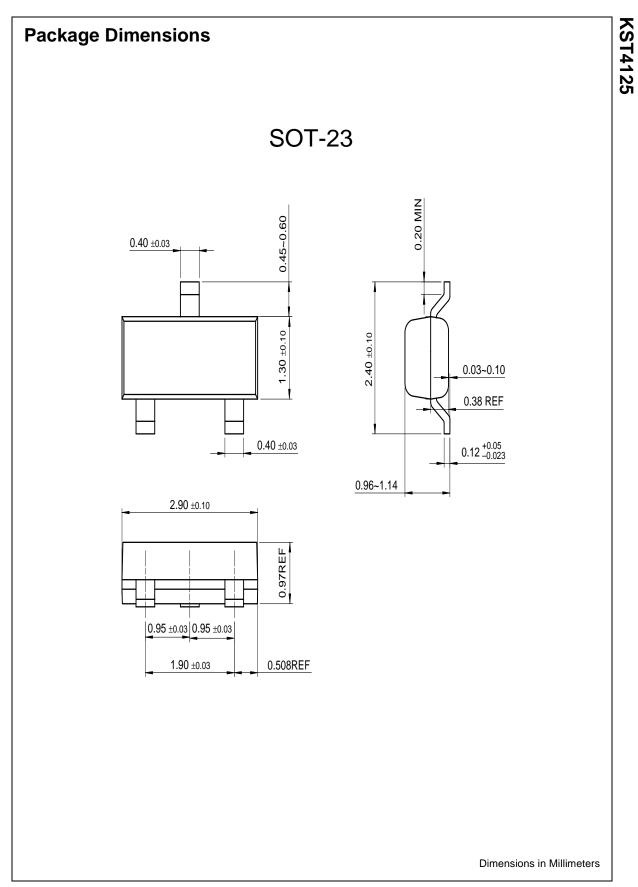
Refer to KST3906 for graphs

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

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I_{C} = -10µA, I_{E} =0	-30		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -1mA, I _E =0	-30		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-4		V
I _{CBO}	Collector Cut-off Current	V _{CB} = -20V, I _E =0		-50	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -3V, I _C =0		-50	nA
h _{FE}	* DC Current Gain	V _{CE} = -1V, I _C = -2.0mA V _{CE} = -1V, I _C = -50mA	50 25	150	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -50mA, I _B = -5.0mA		-0.4	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = -50mA, I _B = -5.0mA		-0.95	V
f _T	Current Gain Bandwidth Product	I _C = -10mA, V _{CE} = -20V f=100MHz	200		MHz
C _{ob}	Output Capacitance	V _{CB} = -5V, I _E =0, f=100KHz		4.5	pF
NF	Noise Figure	I_{C} = -100μA, V _{CE} = -5V R _S =1KΩ f=10Hz to 15.7KHz		5	dB

* Pulse Test: PW \leq 300µs, Duty Cycle \leq 2%





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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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.
Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.