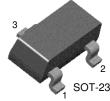
FAIRCHILD

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
V _{CBO}	Collector-Base Voltage	-30	V
V _{CEO}	Collector-Emitter Voltage	-30	V
V _{EBO}	Emitter-Base Voltage	-4	V
с	Collector Current	-200	mA
P _C	Collector Power Dissipation	350	mW
T _{STG}	Storage Temperature	150	°C

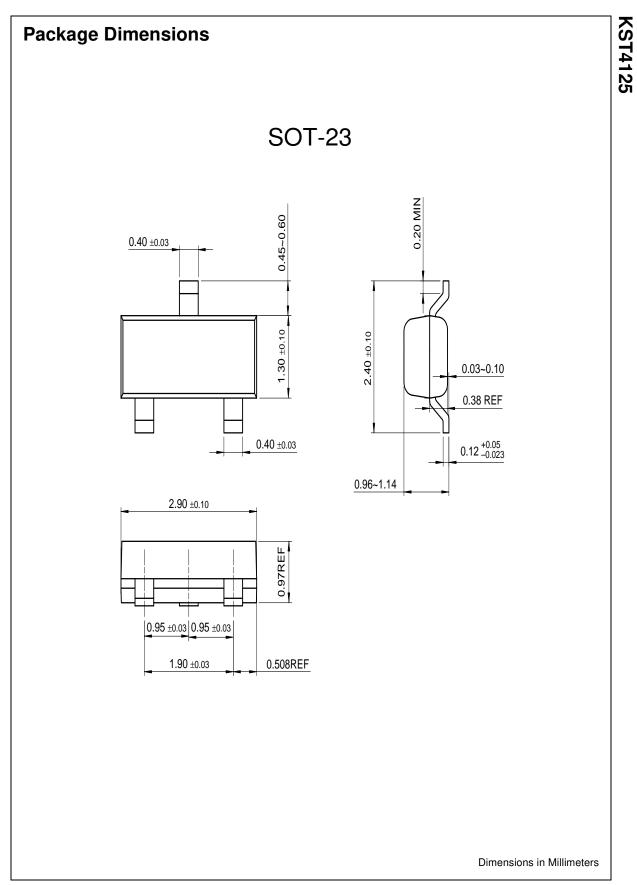
Refer to KST3906 for graphs

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

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C} = -10\mu A, I_{E} = 0$	-30		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -1mA, I _E =0	-30		V
BV_{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μΑ, 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≤300µs, Duty Cycle≤2%





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PRODUCT STATUS DEFINITIONS

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