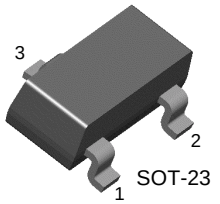
FAIRCHILD
SEMICONDUCTOR®

KST4126

General Purpose Transistor



SOT-23

1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

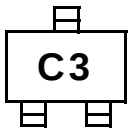
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-25	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current	-200	mA
P_C	Collector Power Dissipation	350	mW
T_{STG}	Storage Temperature	150	°C
R_{TH}(j-a)	Thermal Resistance junction to Ambient	357	°C/W

Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	I_C= -10μA, I_E=0	-25		V
BV_{CEO}	* Collector-Emitter Breakdown Voltage	I_C= -1mA, I_E=0	-25		V
BV_{EBO}	Emitter-Base Breakdown Voltage	I_E= -10μA, I_C=0	-4		
I_{CBO}	Collector Cut-off Current	V_{CB}= -20V, I_E=0		-50	nA
I_{EBO}	Emitter Cut-off Current	V_{BE}= -3V, I_C=0		-50	nA
h_{FE}	* DC Current Gain	V_{CE}= -1V, I_C= -2mA V_{CE}= -1V, I_C= -50mA	120 60	360	
V_{CE} (sat)	* Collector-Emitter Saturation Voltage	I_C= -50mA, I_B= -5mA		-0.4	V
V_{BE} (sat)	* Base-Emitter Saturation Voltage	I_C= -50mA, I_B= -5mA		-0.95	V
f_T	Current Gain Bandwidth Product	V_{CE}= -20V, I_C= -10mA, f=100MHz	250		MHz
C_{ib}	Input Capacitance	V_{BE}= -0.5V, I_C=0, f=1MHz		10	pF
C_{ob}	Output Capacitance	V_{CB}= -5V, I_E=0, f=1MHz		4.5	pF
NF	Noise Figure	V_{CE}= -5V, I_C= -100μA, R_S=1KΩ Noise Bandwidth=10Hz to 15.7KHz		4	dB

* Pulse Test: PW≤300μs, Duty Cycle≤2%

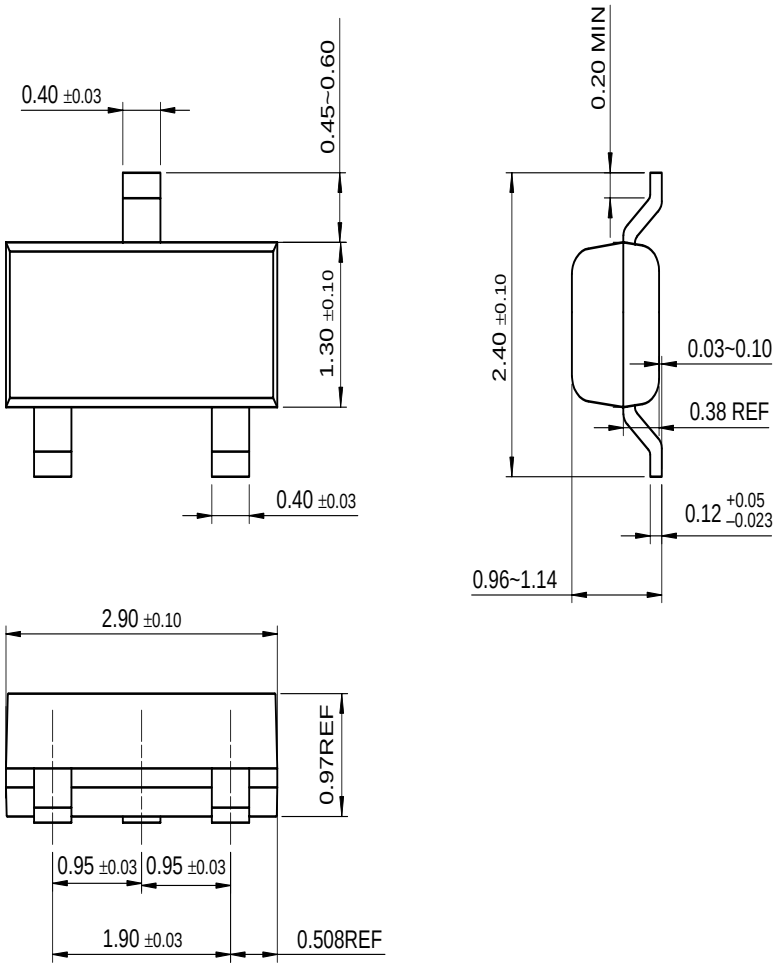
Marking



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Package Dimensions

SOT-23



Dimensions in Millimeters

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