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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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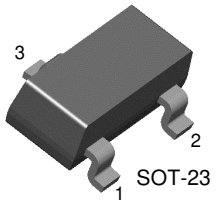
FAIRCHILD
SEMICONDUCTOR®

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

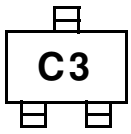
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-25	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current	-200	mA
P_C	Collector Power Dissipation	350	mW
T_{STG}	Storage Temperature	150	°C
R_{TH}(j-a)	Thermal Resistance junction to Ambient	357	°C/W

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

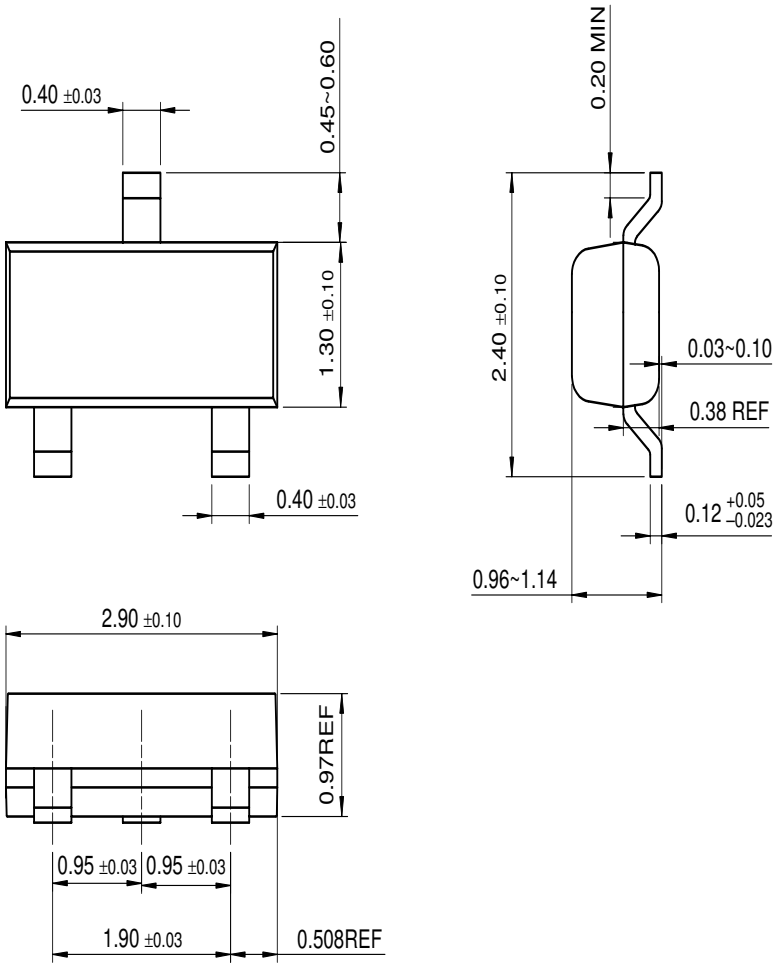
* Pulse Test: PW≤300μs, Duty Cycle≤2%

Marking



Package Dimensions

SOT-23



Dimensions in Millimeters

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EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
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