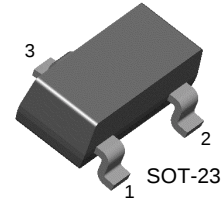


KST4126

General Purpose Transistor



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25^{\circ}\text{C}$ unless otherwise noted

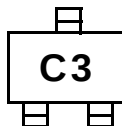
Symbol	Parameter	Value	Units
V_{CBO}	Collector-Base Voltage	-25	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-4	V
I_C	Collector Current	-200	mA
P_C	Collector Power Dissipation	350	mW
T_{STG}	Storage Temperature	150	$^{\circ}\text{C}$
$R_{TH(j-a)}$	Thermal Resistance junction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

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

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

* Pulse Test: $PW \leq 300\mu\text{s}$, Duty Cycles $\leq 2\%$

Marking



Package Dimensions

SOT-23



Dimensions in Millimeters

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