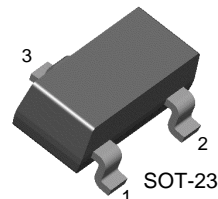


KST4125

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	-30	V
V_{CEO}	Collector-Emitter Voltage	-30	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	$^\circ\text{C}$

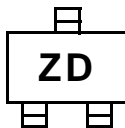
• Refer to KST3906 for graphs

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

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = -10\mu\text{A}, I_E = 0$	-30		V
BV_{CEO}	* Collector-Emitter Breakdown Voltage	$I_C = -1\text{mA}, I_E = 0$	-30		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	$V_{EB} = -3\text{V}, I_C = 0$		-50	nA
h_{FE}	* DC Current Gain	$V_{CE} = -1\text{V}, I_C = -2.0\text{mA}$ $V_{CE} = -1\text{V}, I_C = -50\text{mA}$	50 25	150	
$V_{CE}(\text{sat})$	* Collector-Emitter Saturation Voltage	$I_C = -50\text{mA}, I_B = -5.0\text{mA}$		-0.4	V
$V_{BE}(\text{sat})$	* Base-Emitter Saturation Voltage	$I_C = -50\text{mA}, I_B = -5.0\text{mA}$		-0.95	V
f_T	Current Gain Bandwidth Product	$I_C = -10\text{mA}, V_{CE} = -20\text{V}$ $f = 100\text{MHz}$	200		MHz
C_{ob}	Output Capacitance	$V_{CB} = -5\text{V}, I_E = 0, f = 100\text{KHz}$		4.5	pF
NF	Noise Figure	$I_C = -100\mu\text{A}, V_{CE} = -5\text{V}$ $R_S = 1\text{K}\Omega$ $f = 10\text{Hz to } 15.7\text{KHz}$		5	dB

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

Marking



Package Dimensions

SOT-23



Dimensions in Millimeters

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