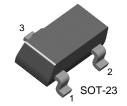


KST4126

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	-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

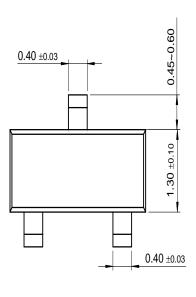
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -10μA, I _E =0	-25		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -1mA, I _E =0	-25		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-4		
I _{CBO}	Collector Cut-off Current	V _{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	120	360	
		V_{CE} = -1V, I_{C} = -50mA	60		
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} =1K Ω		4	dB
		Noise Bandwidth=10Hz to 15.7KHz			

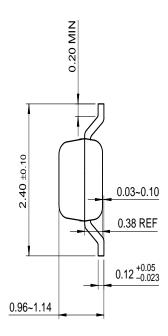
^{*} Pulse Test: PW≤300μs, Duty Cycle≤2%

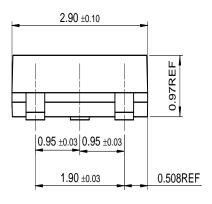


Package Dimensions

SOT-23







Dimensions in Millimeters

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EnSigna™	I^2C^{TM}	OCX^{TM}	RapidConfigure™	UHC™
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The Power Franchise™		OPTOLOGIC [®]	SILENT SWITCHER®	VCX^{TM}
Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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