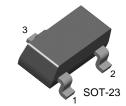


KST4125

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	-30	V
V_{CEO}	Collector-Emitter Voltage	-30	V
V_{EBO}	Emitter-Base Voltage	-4	V
I _C	Collector Current	-200	mA
Pc	Collector Power Dissipation	350	mW
T _{STG}	Storage Temperature	150	°C

Refer to KST3906 for graphs

Electrical Characteristics T_a =25°C unless otherwise noted

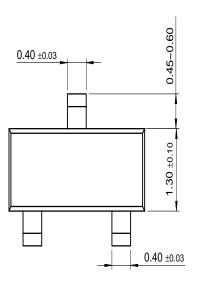
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C} = -10\mu A, I_{E} = 0$	-30		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -1mA, I _E =0	-30		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-4		V
I _{CBO}	Collector Cut-off Current	V _{CB} = -20V, I _E =0		-50	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} = -3V, I _C =0		-50	nA
h _{FE}	* DC Current Gain	V _{CE} = -1V, I _C = -2.0mA	50	150	
		V_{CE} = -1V, I_{C} = -50mA	25		
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -50mA, I _B = -5.0mA		-0.4	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I_{C} = -50mA, I_{B} = -5.0mA		-0.95	V
f _T	Current Gain Bandwidth Product	I _C = -10mA, V _{CE} = -20V f=100MHz	200		MHz
C _{ob}	Output Capacitance	V _{CB} = -5V, I _E =0, f=100KHz		4.5	pF
NF	Noise Figure	I_{C} = -100 μ A, V_{CE} = -5 V		5	dB
		$R_S=1K\Omega$			
		f=10Hz to 15.7KHz			

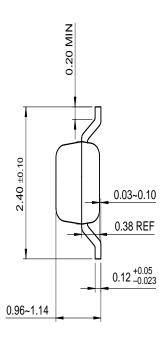
^{*} Pulse Test: PW≤300μs, Duty Cycle≤2%

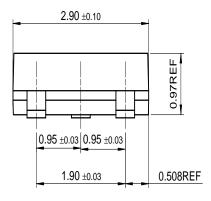


Package Dimensions

SOT-23







Dimensions in Millimeters

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E ² CMOS™	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
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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