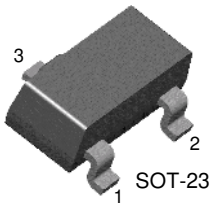
FAIRCHILD
SEMICONDUCTOR®

KST2484

Low Noise Transistor



SOT-23

1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

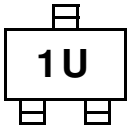
Symbol	Parameter	Value	Units
V_{CBO}	Collector Base Voltage	60	V
V_{CEO}	Collector-Emitter Voltage	60	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current	50	mA
P_C	Collector Power Dissipation	350	mW
T_{STG}	Storage Temperature	150	°C

• Refer to KSP5088 for graphs

Electrical Characteristics T_a=25°C unless otherwise noted

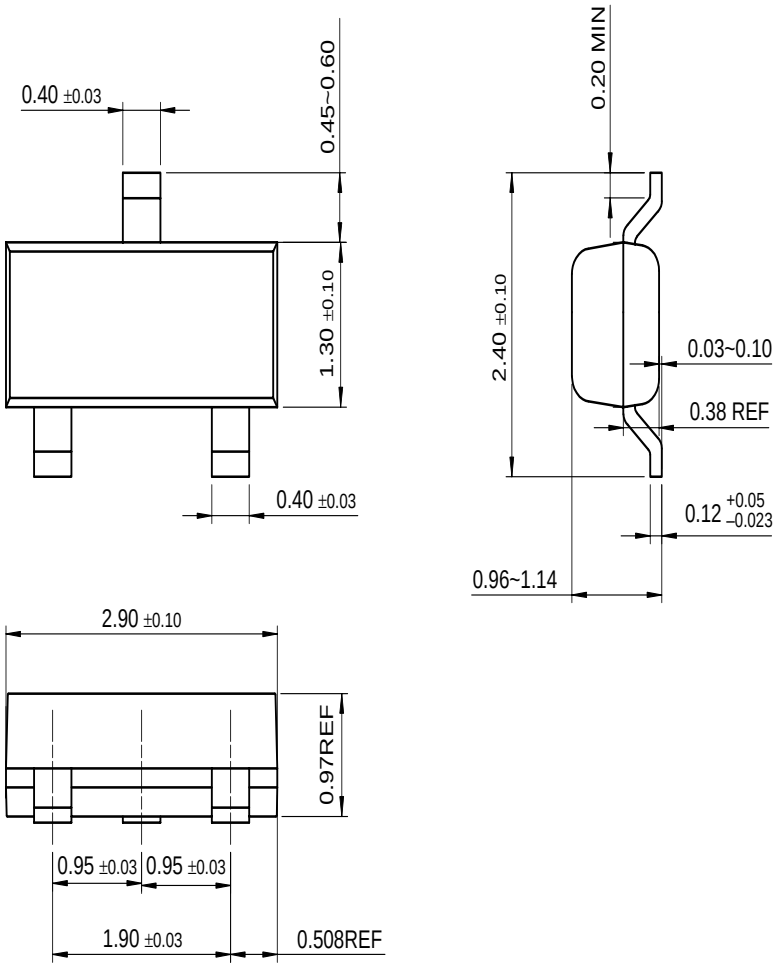
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	I_C=10μA, I_E=0	60		V
BV_{CEO}	Collector-Emitter Breakdown Voltage	I_C=10mA, I_B=0	60		V
BV_{EBO}	Emitter-Base Breakdown Voltage	I_E=10μA, I_C=0	5		V
I_{CBO}	Collector Cut-off Current	V_{CB}=45V, I_E=0		10	nA
I_{EBO}	Emitter Cut-off Current	V_{EB}=5V, I_C=0		10	nA
h_{FE}	DC Current Gain	V_{CE}=5V, I_C=1mA V_{CE}=5V, I_C=10mA	250	 800	
V_{CE} (sat)	Collector-Emitter Saturation Voltage	I_C=1mA, I_B=0.1mA		0.35	V
V_{BE} (on)	Base-Emitter On Voltage	I_C=1mA, V_{CE}=5V		0.95	V
C_{ob}	Output Capacitance	V_{CB}=5.0V, I_E=0, f=1MHz,		6	pF
NF	Noise Figure	I_C=10μA, V_{CE}=5V R_S=10KΩ, f=1KHz		3	dB

Marking



Package Dimensions

SOT-23



Dimensions in Millimeters

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CoolFET™	FASTr™	MicroFET™	PowerTrench®	SuperSOT™-6
CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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EcoSPARK™	GTO™	MSX™	QT Optoelectronics™	TinyLogic™
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Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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