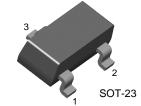


KST2484

Low Noise Transistor



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

$\textbf{Electrical Characteristics} \ \, \textbf{T}_{a} \!\!=\!\! 25^{\circ} \textbf{C} \ \, \text{unless otherwise noted}$

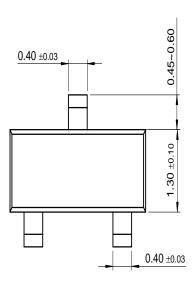
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =10μA, I _E =0	60		V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =10mA, I _B =0	60		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0	5		V
I _{CBO}	Collector Cut-off Current	V _{CB} =45V, 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 =10ΚΩ, f=1KHz		3	dB

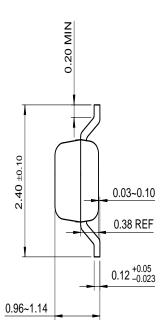
Marking

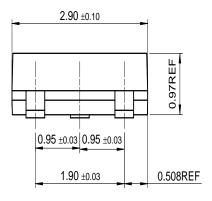


Package Demensions

SOT-23







Dimensions in Millimeters

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