

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

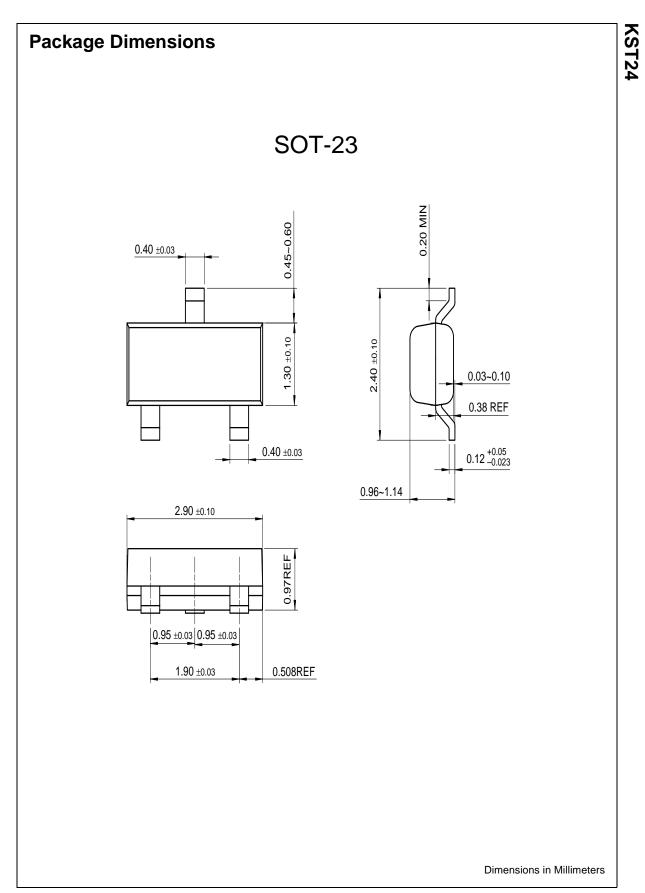
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	40	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	4	V
I _C	Collector Current	100	mA
P _C	Collector Power Dissipation	350	mW
T _{STG}	Storage Temperature	150	°C
R _{TH} (j-a)	Thermal Resistance Junction to Ambient	357	°C/W

Refer to KSP24 for graphs

Electrical Characteristics Ta=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =100μA, I _E =0	40			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =1mA, I _B =0	30			V
BVEBO	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0	4			V
I _{CBO}	Collector Cut-off Current	V _{CB} =15V, I _E =0		_	50	nA
h _{FE}	DC Current Gain	V _{CE} =10V, I _C =8mA	30	da-	7 V.V.	0.0
f _T	* Current Gain Bandwidth Product	V _{CE} =10V, I _C =8mA f=100MHz	400	620	N.Br.	MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		0.25	0.36	pF
G _G	Conversion Gain (213MHz to 45MHz)	I _C =8mA, V _{CC} =20V	19	24		dB
	(60MHz to 45MHz)	Oscillator Injection=150mV	24	29		dB

Marking



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