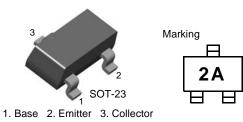


KST3906 PNP Epitaxial Silicon Transistor

Features

General Purpose Transistor



Absolute Maximum Ratings $T_a = 25^{\circ}C$ unless otherwise noted

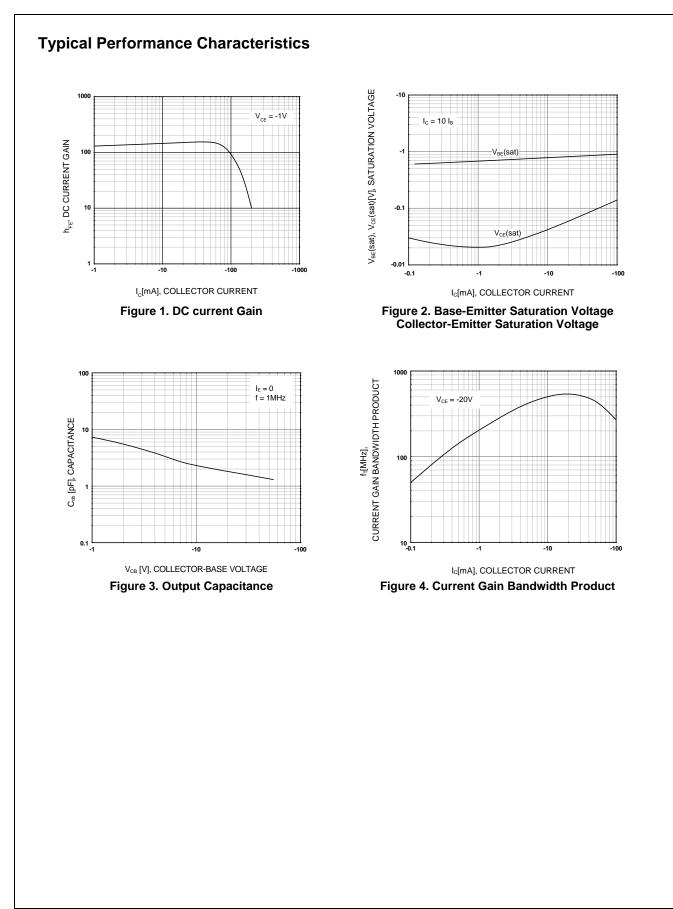
Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-40	V	
V _{CEO}	Collector-Emitter Voltage	-40	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
۱ _C	Collector Current	-200	mA	
P _C	Collector Power Dissipation	350	mW	
T _{STG}	Storage Temperature	150	°C	

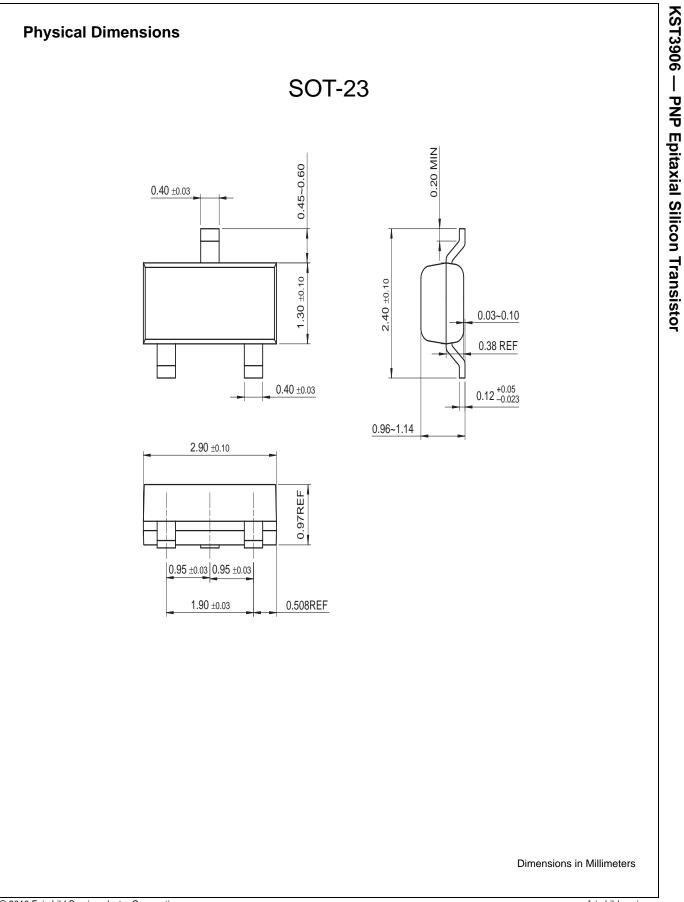
Electrical Characteristics $T_a=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Unit
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -10μA, I _E =0	-40		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -1.0mA, I _B =0	-40		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-5		V
I _{CEX}	Collector Cut-off Current	V _{CE} = -30V, V _{EB} = -3V		-50	nA
h _{FE}	* DC Current Gain	$V_{CE} = -1V, I_{C} = -0.1mA$ $V_{CE} = -1V, I_{C} = -1mA$ $V_{CE} = -1V, I_{C} = -10mA$ $V_{CE} = -1V, I_{C} = -50mA$ $V_{CE} = -1V, I_{C} = -100mA$	60 80 100 60 30	300	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -10mA, I _B = -1.0mA I _C = -50mA, I _B = -5.0mA		-0.25 -0.4	V V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = -10mA, I _B = -1.0mA I _C = -50mA, I _B = -5.0mA	-0.65	-0.85 -0.95	V V
f _T	Current Gain Bandwidth Product	I _C = -10mA, V _{CE} = -20V, f=100MHz	250		MHz
C _{ob}	Output Capacitance	V _{CB} = -5V, I _E =0, f=1.0MHz		4.5	pF
NF	Noise Figure	I _C = -100μA, V _{CE} = -5V R _S =1KΩ, f=10Hz to 15.7KHz		4	dB
t _{ON}	Turn On Time	V_{CC} = -3V, V_{BE} = -0.5V I _C = -10mA, I _{B1} = -1mA		70	ns
t _{OFF}	Turn Off Time	V_{CC} = -3V, I_{C} = -10mA I_{B1} = I_{B2} = -1mA		300	ns

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