FAIRCHILD

SEMICONDUCTOR®

KST5401

High Voltage Transistor



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

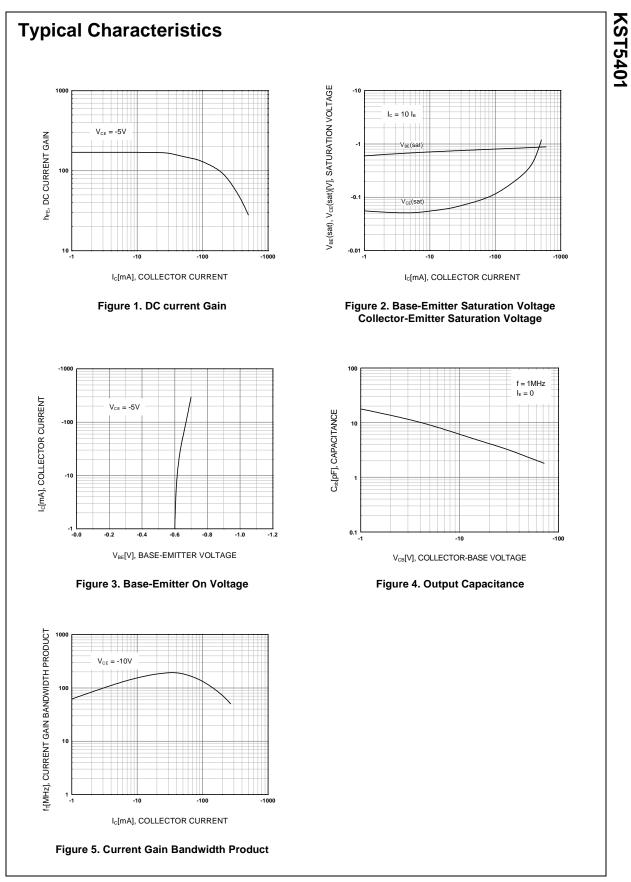
Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-160	V
V _{CEO}	Collector-Emitter Voltage	-150	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-500	mA
P _C	Collector Power Dissipation	350	mW
T _{STG}	Storage Temperature	150	°C

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

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -100μΑ, I _E =0	-160		V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C = -1.0mA, I _B =0	-150		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μΑ, I _C =0	-5		V
I _{CBO}	Collector Cut-off Current	V _{CB} = -100V, I _E =0		-50	nA
h _{FE}	DC Current Gain	V_{CE} = -5V, I _C = -1.0mA V_{CE} = -5V, I _C = -10mA V_{CE} = -5V, I _C = -50mA	50 60 50	240	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C = -10mA, I _B = -1.0mA I _C = -50mA, I _B = -5mA		-0.2 -0.5	V V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I _C = -10mA, I _B = -1.0mA I _C = -50mA, I _B = -5mA		-1.0 -1.0	V V
f _T	Current Gain Bandwidth Product	I _C = -10mA, V _{CE} = -10V f=100MHz	100	300	MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1.0MHz		6.0	pF
NF	Noise Figure	V _{CE} = -5V, I _C = -200μA R _S =10KΩ, f=10Hz to 15.7KHz		8.0	dB

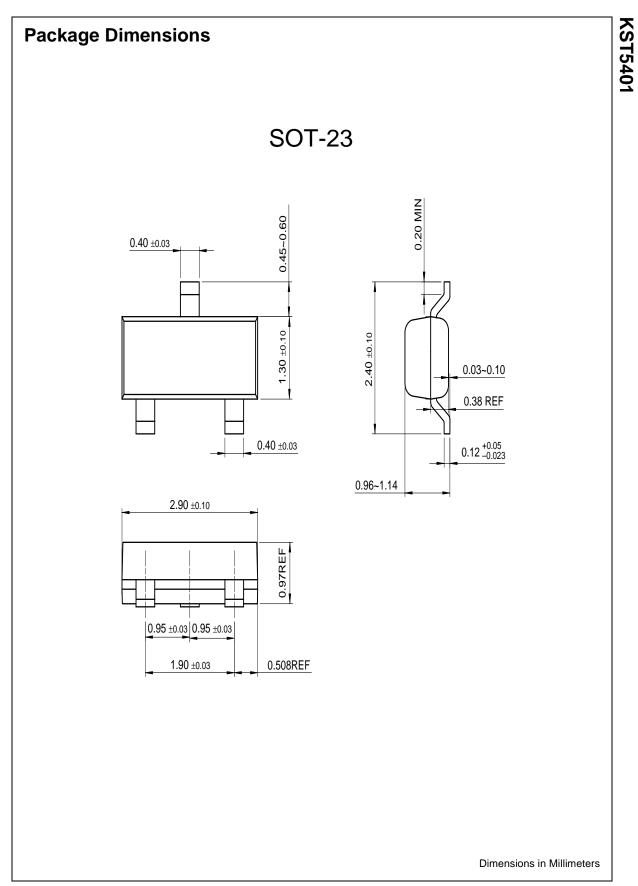






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