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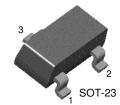
KST4403

FAIRCHILD

SEMICONDUCTOR®

KST4403

Switching Transistor



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a=25$ °C unless otherwise noted

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	-40	V	
V _{CEO}	Collector-Emitter Voltage	-40	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
c	Collector Current	-600	mA	
P _C	Collector Power Dissipation	350	mW	
Т _{STG}	Storage Temperature	150	°C	

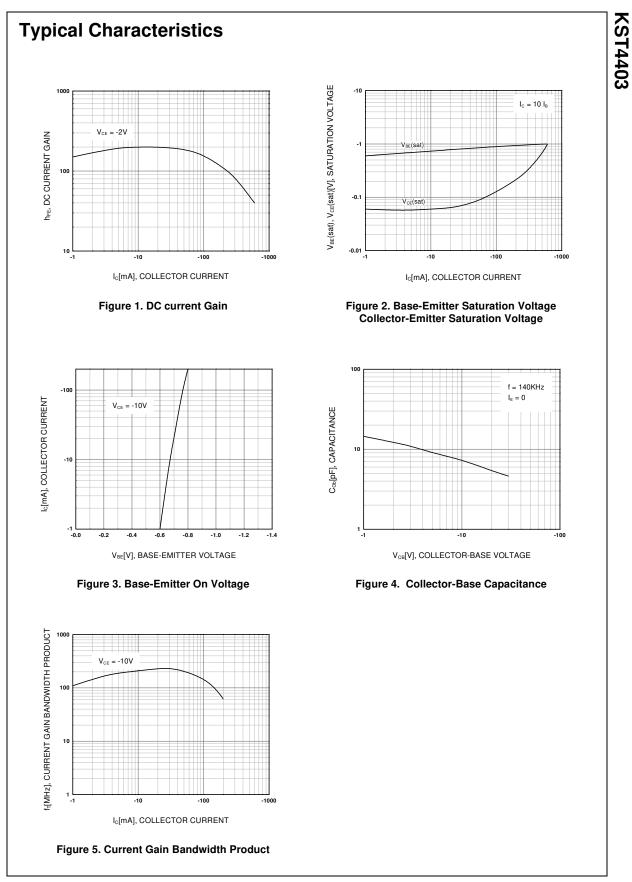
Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -0.1mA, 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 = -0.1mA, I _C =0	-5		V
I _{BEV}	Base Cut-off Current	V _{CE} = -35V, V _{BE} = -0.4V		-0.1	μA
I _{CEX}	Collector Cut-off Current	V _{CE} = -35V, V _{BE} = -0.4V		-0.1	μA
h _{FE}	DC Current Gain	$V_{CE}=-1V, I_{C}=-0.1mA \\ V_{CE}=-1V, I_{C}=-1.0mA \\ V_{CE}=-1V, I_{C}=-10mA \\ ^{*}V_{CE}=-2V, I_{C}=-150mA \\ ^{*}V_{CE}=-2V, I_{C}=-500mA$	30 60 100 100 20	300	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = -50mA		-0.4 -0.75	V V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = -50mA	-0.75	-0.95 -1.3	V V
f _T	Current Gain Bandwidth Product	I _C = -20mA, V _{CE} = -10V f=100MHz	200		MHz
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0 f=140KHz		8.5	pF
t _{ON}	Turn On Time	V _{CC} = -30V, V _{BE} = -2V I _C = -150mA, I _{B1} = -15mA		35	ns
t _{OFF}	Turn Off Time	V _{CC} = -30V, I _C = -150mA I _{B1} =I _{B2} = -15mA		255	ns

* Pulse Test: Pulse Width \leq 300µs, Duty Cycle \leq 2%

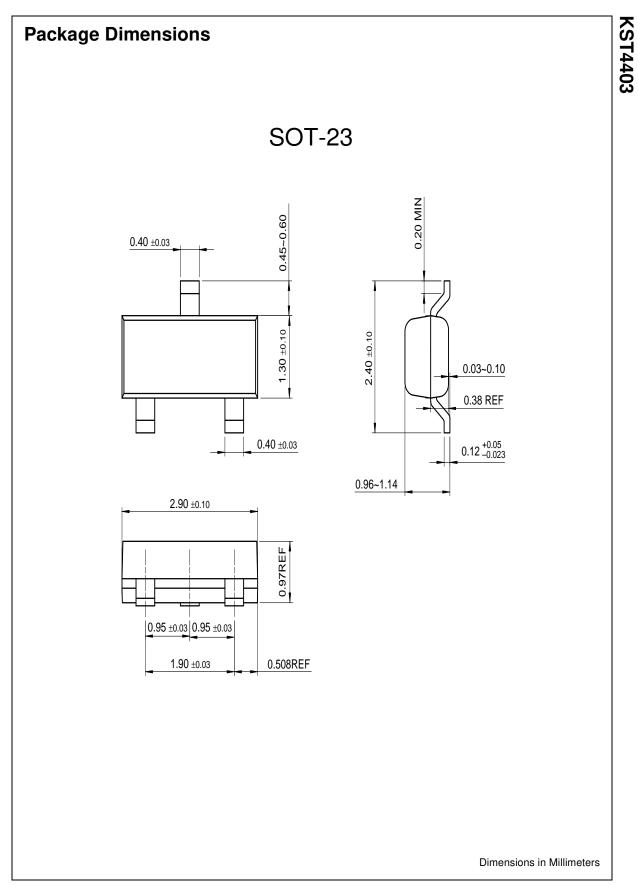






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