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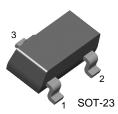
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FAIRCHILD

SEMICONDUCTOR®

KST5550

High Voltage Transistor



1. Base 2. Emitter 3. Collector

NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

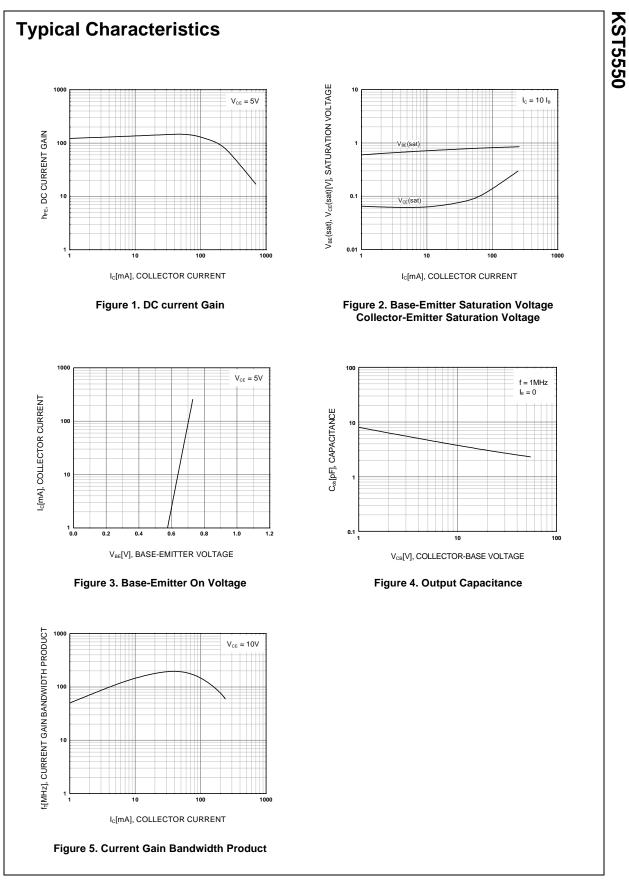
Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	160	V	
V _{CEO}	Collector-Emitter Voltage	140	V	
V _{EBO}	Emitter-Base Voltage	6	V	
I _C	Collector Current	600	mA	
P _C	Collector Power Dissipation	350	mW	
T _{STG}	Storage Temperature	150	°C	

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 =10μA, I _E =0	160		V
BV _{CEO}	Collector-Emitter Breakdown Voltage	I _C =1mA, I _B =0	140		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0	6		V
I _{CBO}	Collector Cut-off Current	V _{CB} =100V, I _E =0		100	nA
I _{EBO}	Emitter Cut-off Current	V _{EB} =4V, I _C =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	60 60 20	250	
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =1mA I _C =50mA, I _B =5mA		0.15 0.25	V V
V _{BE} (sat)	Base-Emitter Saturation Voltage	I_{C} =10mA, I_{B} =1mA I_{C} =50mA, I_{B} =5mA		1.0 1.2	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

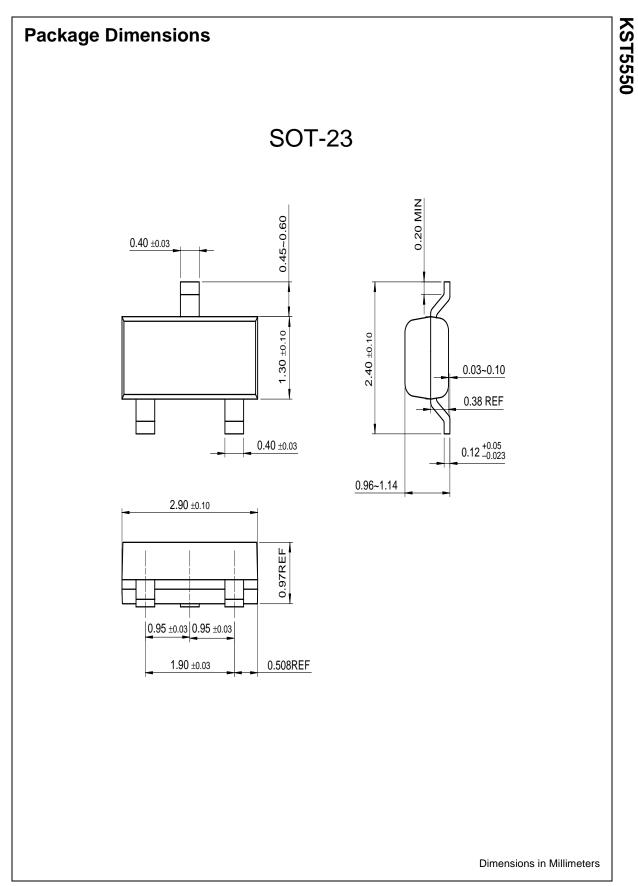
Marking





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