

SEMICONDUCTOR TM

KST2907

General Purpose Transistor



1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-5	V
lc	Collector Current	-600	mA
P _C	Collector Dissipation	350	mW
T _{STG}	Storage Temperature	150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

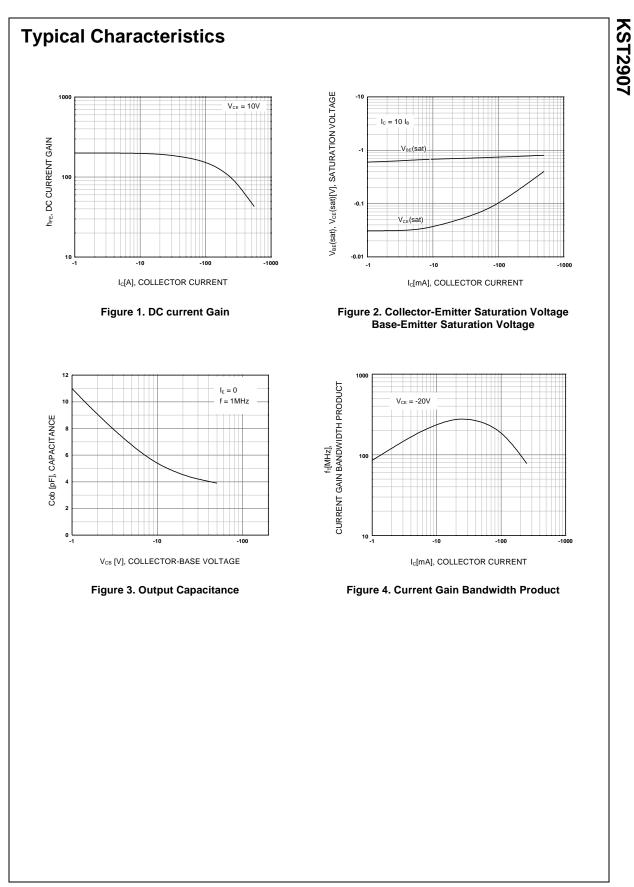
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -10μA, I _E =0	-60		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0	-40		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-5		V
I _{CEX}	Collector Cut-off Current	V _{CE} = -30V, V _{EB} = -0.5V		-50	nA
I _{CBO}	Collector Cut-off Current	V _{CB} = -50V, I _E =0		-0.02	μΑ
h _{FE}	DC Current Gain	$\label{eq:V_CE} \begin{array}{l} V_{CE} = -10V, \ I_{C} = -0.1mA \\ V_{CE} = -10V, \ I_{C} = -1.0mA \\ V_{CE} = -10V, \ I_{C} = -10mA \\ {}^{*}V_{CE} = -10V, \ I_{C} = -150mA \\ {}^{*}V_{CE} = -10V, \ I_{C} = -500mA \end{array}$	35 50 75 100 30	300	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = -50mA		-0.4 -1.6	V V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C = -150mA, I _B = -15mA I _C = -500mA, I _B = -50mA		-1.3 -2.6	V V
f _T	Current Gain Bandwidth Product	I _C = -50mA, V _{CE} = -20V f=100MHz	200		MHz
Cob	Output Capacitance	V _{CB} = -10V, I _E =0, f=1.0MHz	Ì	8.0	pF
t _{ON}	Turn On Time	V _{CC} = -30V, I _C = -150mA I _{B1} = -15mA		45	ns
t _{OFF}	Turn Off Time	V _{CC} = -6V, I _C = -150mA I _{B1} =I _{B2} = -15mA		100	ns

* Pulse Test: PW≤300µs, Duty Cycle≤2%

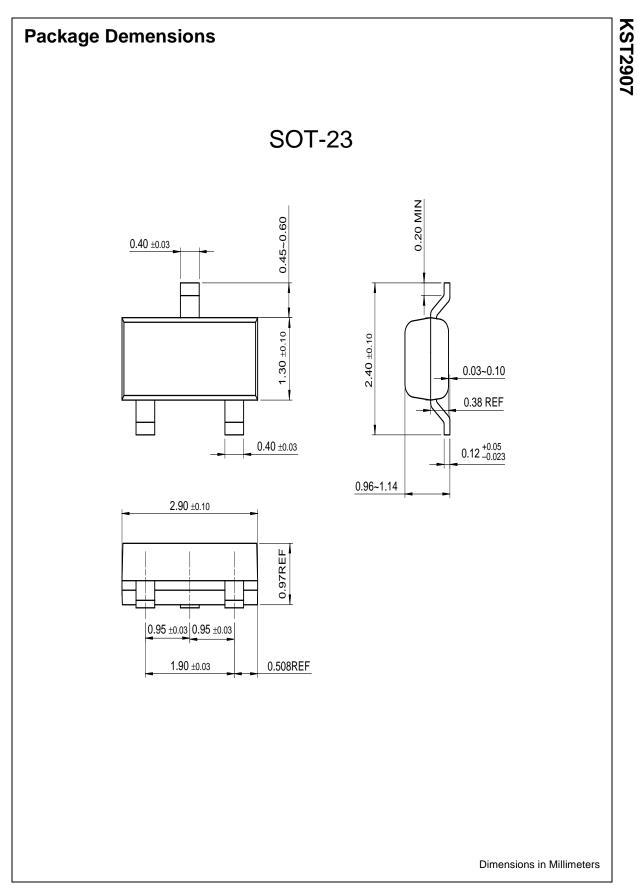


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