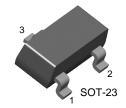


KST2907A

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	Units
V_{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V_{EBO}	Emitter-Base Voltage	-5	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°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	-60		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μA, I _C =0	-5		V
I _{CBO}	Collector Cut-off Current	V _{CB} = -50V, I _E =0		-0.01	μΑ
h _{FE}	DC Current Gain	$\begin{split} &V_{CE}\text{=-}10\text{V, }I_{C}\text{=-}0.1\text{mA} \\ &V_{CE}\text{=-}10\text{V, }I_{C}\text{=-}1.0\text{mA} \\ &V_{CE}\text{=-}10\text{V, }I_{C}\text{=-}10\text{mA} \\ &^{*}V_{CE}\text{=-}10\text{V, }I_{C}\text{=-}150\text{mA} \\ &^{*}V_{CE}\text{=-}10\text{V, }I_{C}\text{=-}500\text{mA} \end{split}$	75 100 100 100 50	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 _{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
C _{ob}	Output Capacitance	V _{CB} = -10V, I _E =0, f=1.0MHz		8	pF
t _{ON}	Turn On Time	V _{CC} = -30V, I _C = -150mA 50 I _{B1} = -15mA		50	ns
t _{OFF}	Turn Off Time	V_{CC} = -6V, I_{C} = -150mA 110 I_{B1} = I_{B2} = -15mA		ns	

^{*} Pulse Test: PW≤300μs, Duty Cycle≤2%



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Typical Characteristics

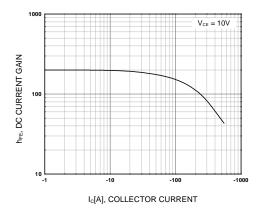


Figure 1. DC current Gain

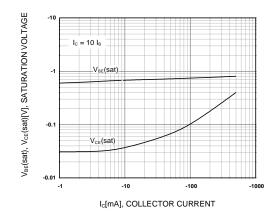


Figure 2. Collector-Emitter Saturation Voltage Base-Emitter Saturation Voltage

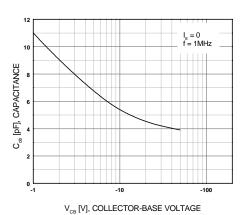


Figure 3. Output Capacitance

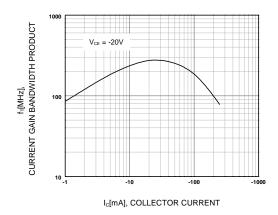
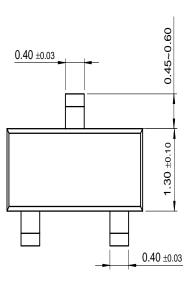
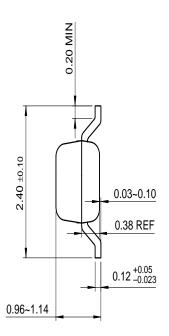


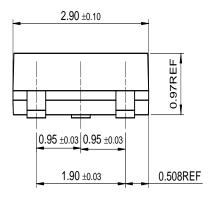
Figure 4. Current Gain Bandwidth Product

Package Dimensions

SOT-23







Dimensions in Millimeters

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