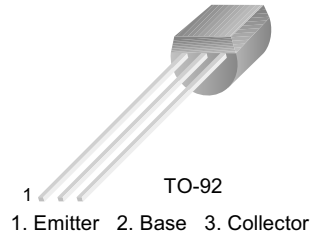


General Purpose Transistor

- Collector-Emitter Voltage: $V_{CE0} = 60V$
- Collector Power Dissipation: $P_C (max) = 625mW$



PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings $T_a = 25^\circ C$ 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	625	mW
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature	-55 ~ 150	$^\circ C$

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

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = -10\mu A, I_E = 0$	-60			V
BV_{CEO}	* Collector Emitter Breakdown Voltage	$I_C = -10mA, I_B = 0$	-60			V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -10\mu A, I_C = 0$	-5			V
I_{CBO}	Collector Cut-off Current	$V_{CB} = -50V, I_E = 0$			-10	nA
h_{FE}	DC Current Gain	$I_C = -0.1mA, V_{CE} = -10V$ $V_{CE} = -10V, I_C = -1mA$ $V_{CE} = -10V, I_C = -10mA$ $V_{CE} = -10V, *I_C = -150mA$ $V_{CE} = -10V, *I_C = -500mA$	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
$V_{BE(sat)}$	Base Emitter Saturation Voltage	$I_C = -150mA, I_B = -15mA$ $I_C = -500mA, I_B = -50mA$			-1.3 -2.6	V V
C_{ob}	Output Capacitance	$V_{CB} = -10V, I_E = 0$ $f = 1MHz$			8	pF
f_T	* Current Gain Bandwidth Product	$I_C = -50mA, V_{CE} = -20V$ $f = 100MHz$	200			MHz
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: Pulse Width $\leq 300\mu s$, Duty Cycle $\leq 2\%$

Typical Characteristics

STC2907A

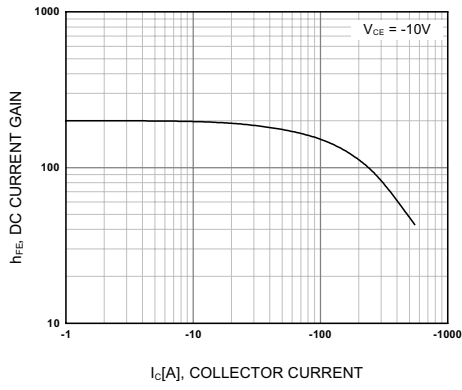


Figure 1. DC current Gain

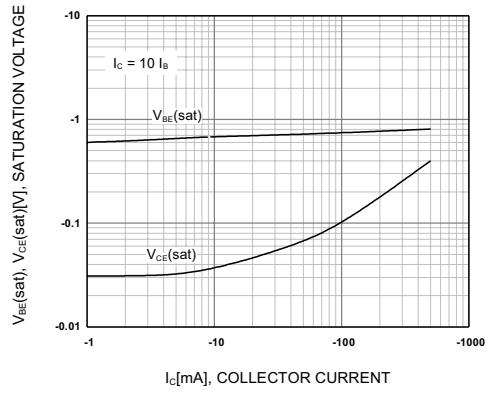


Figure 2. Collector-Emitter Saturation Voltage
Base-Emitter Saturation Voltage

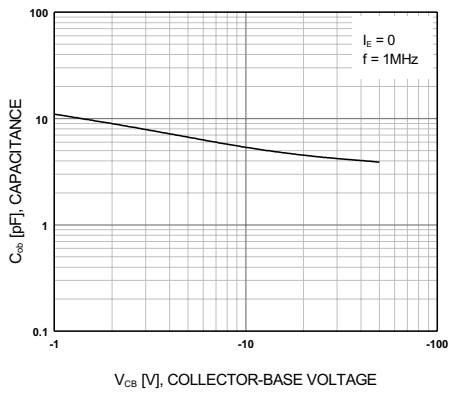


Figure 3. Output Capacitance

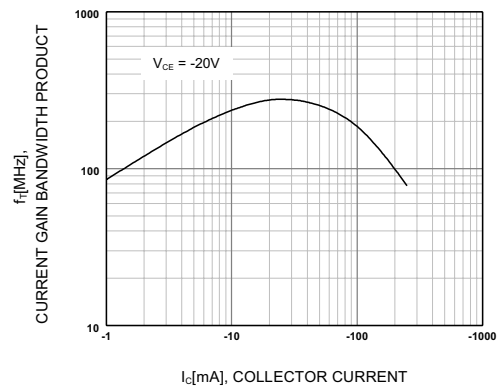


Figure 4. Current Gain Bandwidth Product