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FAIRCHILD

SEMICONDUCTOR®

FJX2907A

General Purpose Transistor



FJX2907A

1. Base 2. Emitter 3. Collector

PNP Epitaxial Silicon Transistor

Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
/ _{CBO}	Collector-Base Voltage	-60	V
/ _{CES}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
с	Collector Current	-600	mA
°c	Collector Power Dissipation	325	mW
Г _{STG}	Storage Temperature	150	°C

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

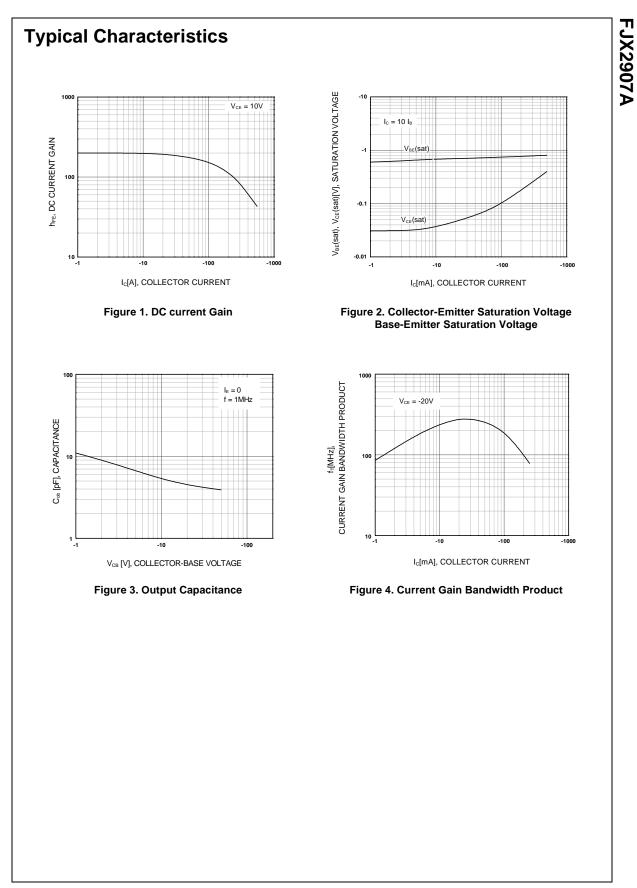
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C = -10μA, I _E =0	-60		V
BV _{CEO}	* Collector-Emitter Breakdown Voltage	I _C = -10mA, I _B =0	-60		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E = -10μΑ, I _C =0	-5		V
I _{CBO}	Collector Cut-off Current	V _{CB} = -50V, I _E =0		-0.01	μΑ
h _{FE}	DC Current Gain	$V_{CE} = -10V, I_E = -0.1mA \\ V_{CE} = -10V, I_C = -1.0mA \\ V_{CE} = -10V, I_C = -10mA \\ ^{*}V_{CE} = -10V, I_C = -150mA \\ ^{*}V_{CE} = -10V, I_C = -500mA$	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
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 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 \leq 300 μ s, Duty Cycle \leq 2%



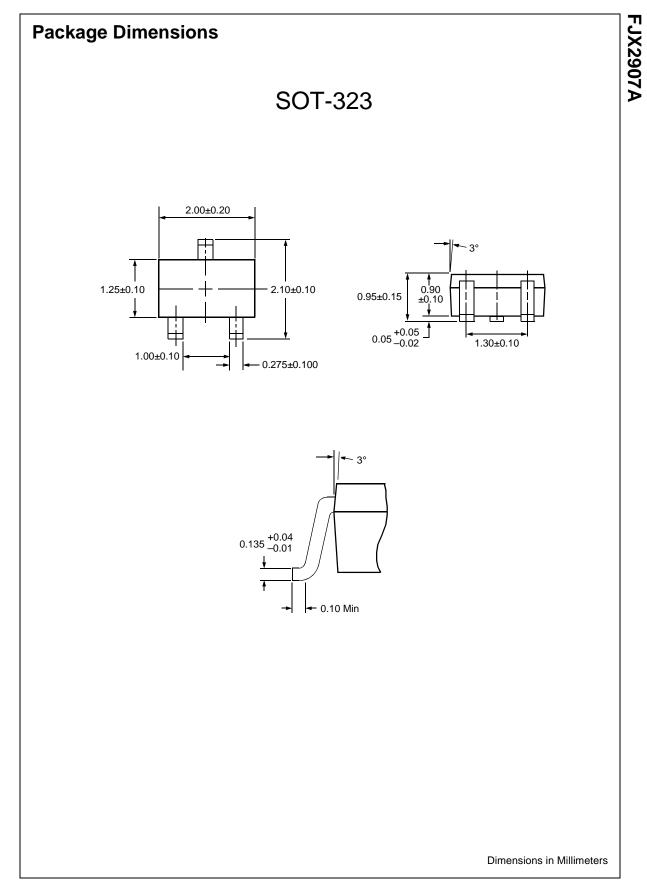


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Definition of Terms

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