SEMICONDUCTOR®

PN2222

General Purpose Transistor



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	60	V
V _{CEO}	Collector-Emitter Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
с	Collector Current	600	mA
P _C	Collector Power Dissipation	625	mW
Т _Ј	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

Electrical Characteristics T_a=25°C unless otherwise noted

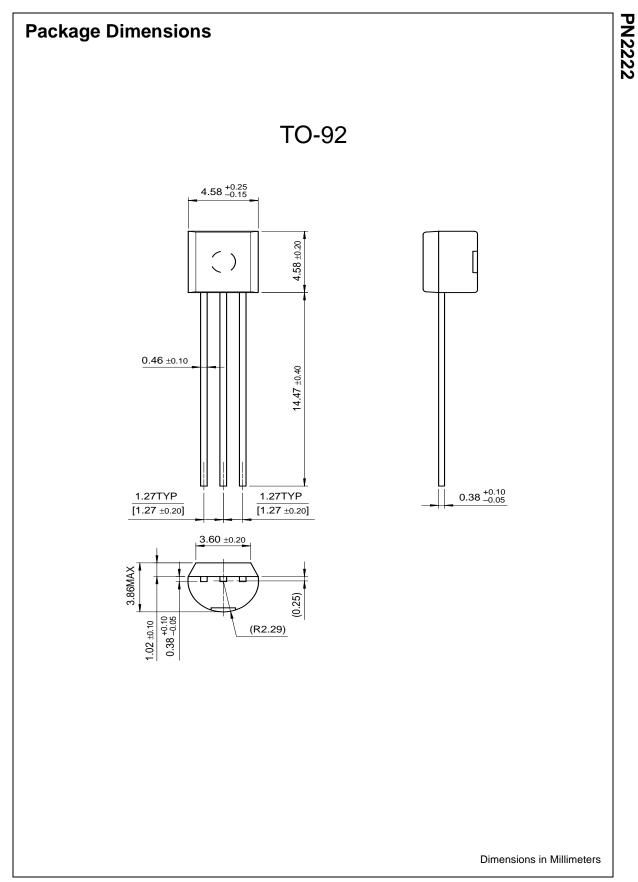
Symbol	Parameter	Test Condition	Min.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =10μA, I _E =0	60		V
BV _{CEO}	Collector Emitter Breakdown Voltage	I _C =10mA, I _B =0	30		V
BV _{EBO}	Emitter-Base Breakdown Voltage	I _E =10μA, I _C =0	5		V
I _{CBO}	Collector Cut-off Current	V _{CB} =50V, I _E =0		0.01	μΑ
I _{EBO}	Emitter Cut-off Current	V _{EB} =3V, I _C =0		10	nA
h _{FE}	DC Current Gain	V _{CE} =10V, I _C =0.1mA V _{CE} =10V, *I _C =150mA	35 100	300	
V _{CE} (sat)	* Collector-Emitter Saturation Voltage	I _C =500mA, I _B =50mA		1	V
V _{BE} (sat)	* Base-Emitter Saturation Voltage	I _C =500mA, I _B =50mA		2	V
f _T	Current Gain Bandwidth Product	V _{CE} =20V, I _C =20mA, f=100MHz	300		MHz
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0, f=1MHz		8	pF

* Pulse Test: Pulse Width≤300µs, Duty Cycle≤2%

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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition		
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Preliminary	First Production	This datasheet contains preliminary data, and supplementary data will be published at a later date. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.		
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