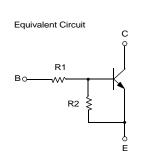


1 TO-92S 1.Emitter 2. Collector 3. Base

NPN Epitaxial Silicon Transistor

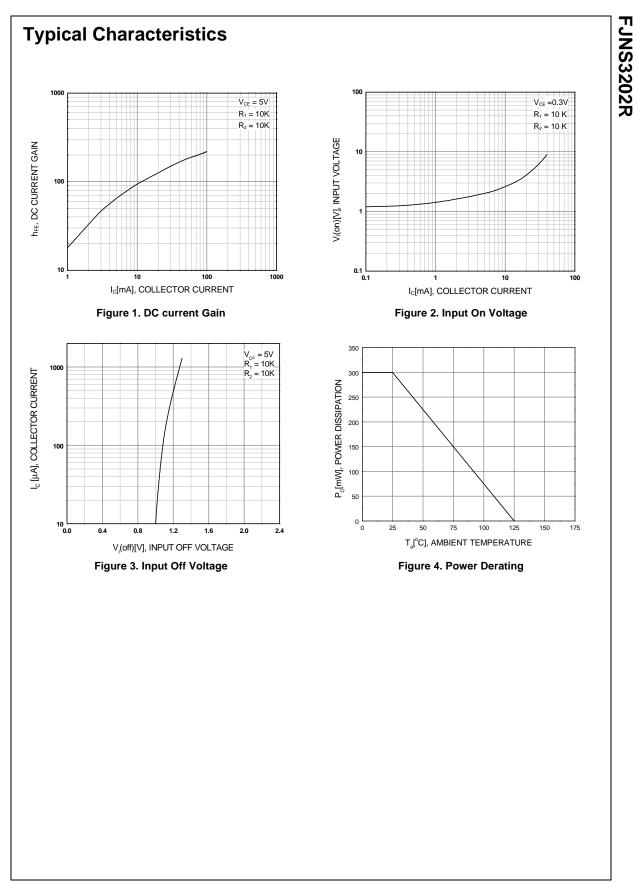
Absolute Maximum Ratings T_a=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	50	V
V _{CEO}	Collector-Emitter Voltage	50	V
V _{EBO}	Emitter-Base Voltage	10	V
I _C	Collector Current	100	mA
P _C	Collector Power Dissipation	300	mW
TJ	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

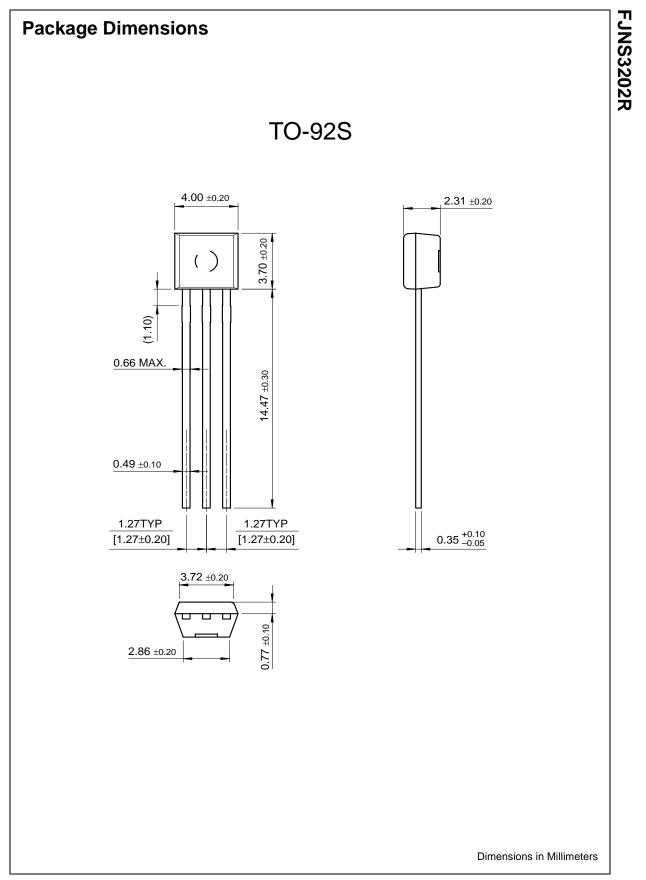


Electrical Characteristics Ta=25°C unless otherwise noted

Symbol Parameter		Test Condition	Min.	Тур.	Max.	Units	
BV _{CBO}	Collector-Base Breakdown Voltage	I _C =10μΑ, I _E =0	50			V	
		I _C =100μA, I _B =0	50			V	
I _{CBO} Collector Cut-off Current		V _{CB} =40V, I _E =0			0.1	μΑ	
h _{FE}	DC Current Gain	V _{CE} =5V, I _C =5mA	30				
V _{CE} (sat)	Collector-Emitter Saturation Voltage	I _C =10mA, I _B =0.5mA			0.3	V	
f _T	Current Gain Bandwidth Product	V _{CE} =10V, I _C =5mA		250		MHz	
C _{ob}	Output Capacitance	V _{CB} =10V, I _E =0 f=1.0MHz		3.7		pF	
V _I (off)	Input Off Voltage	V _{CE} =5V, I _C =100μA	0.5			V	
V _I (on)	Input On Voltage	V _{CE} =0.3V, I _C =10mA			3	V	
R ₁	Input Resistor		7	10	13	KΩ	
R_1/R_2	Resistor Ratio		0.9	1	1.1		



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PRODUCT STATUS DEFINITIONS

Definition of Terms

Datasheet Identification	Product Status	Definition
Advance Information	Formative or In Design	This datasheet contains the design specifications for product development. Specifications may change in any manner without notice.
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Obsolete	Not In Production	This datasheet contains specifications on a product that has been discontinued by Fairchild semiconductor. The datasheet is printed for reference information only.

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Product status/pricing/packaging

J 1	Product	Product status	Pricing*	Package type	Leads	Packing method
ļ	FJNS3202RTA	Full Production	\$0.057	<u>TO-92S</u>	3	TAPE REEL
ļ	FJNS3202RBU	Full Production	\$0.057	<u>TO-928</u>	3	BULK

* 1,000 piece Budgetary Pricing

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