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Fairchild Semiconductor FJN3313RTA

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FJN3313R

Switching Application (Bias Resistor Built In)

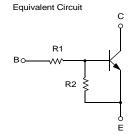
- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R₁ =2.2K Ω , R₂=47K Ω)
- Complement to FJN4313R



NPN Epitaxial Silicon Transistor

Absolute Maximum Ratings Ta=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
T _J	Junction Temperature	150	°C
T _{STG}	Storage Temperature	-55 ~ 150	°C

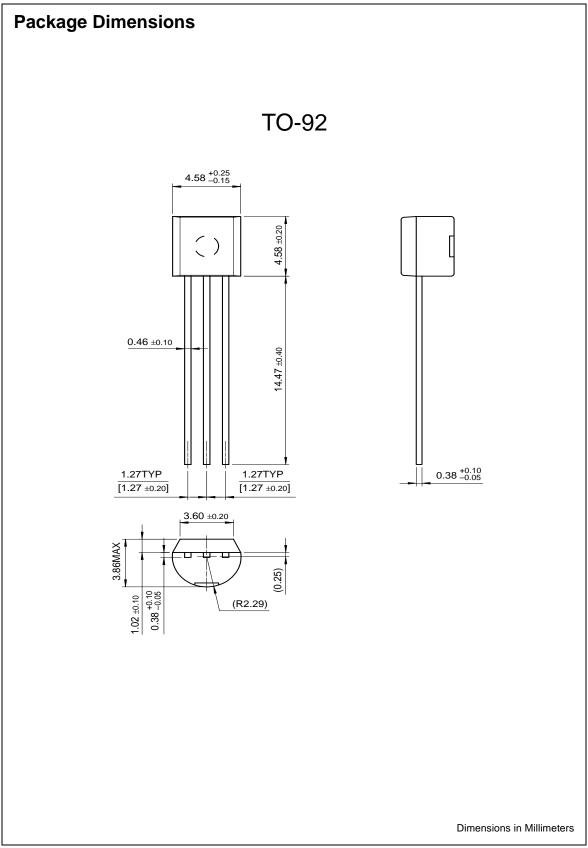


Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units
BV _{CBO}	Collector-Base Breakdown Voltage	$I_{C}=10\mu A, I_{E}=0$	50			V
BV _{CEO}	Collector-Emitter Breakdown Voltage	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	68			
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} =0.2V, I_{C} =5mA			1.1	V
R ₁	Input Resistor		1.5	2.2	2.9	ΚΩ
R ₁ /R ₂	Resistor Ratio		0.042	0.047	0.052	

Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com





Distributor of Fairchild Semiconductor: Excellent Integrated System Limited Datasheet of FJN3313RTA - TRANS PREBIAS NPN 300MW TO92-3

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