

# **Excellent Integrated System Limited**

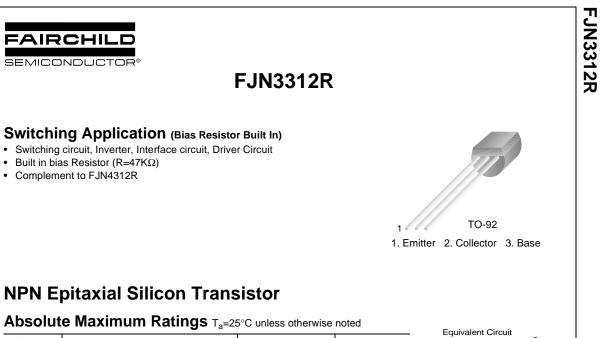
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Fairchild Semiconductor FJN3312RTA

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>





Symbol	Parameter	Value	Units
V <sub>CBO</sub>	Collector-Base Voltage	40	V
V <sub>CEO</sub>	Collector-Emitter Voltage	40	V
V <sub>EBO</sub>	Emitter-Base Voltage	5	V
I <sub>C</sub>	Collector Current	100	mA
P <sub>C</sub>	Collector Power Dissipation	300	mW
TJ	Junction Temperature	150	°C
T <sub>STG</sub>	Storage Temperature	-55 ~ 150	°C

## **Electrical Characteristics** T<sub>a</sub>=25°C unless otherwise noted

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Symbol	Parameter	Test Condition	Min.	Тур.	Max.	Units	
BV <sub>CBO</sub>	Collector-Base Breakdown Voltage	I <sub>C</sub> =100μA, I <sub>E</sub> =0	40			V	
BV <sub>CEO</sub>	Collector-Emitter Breakdown Voltage	I <sub>E</sub> =1mA, I <sub>B</sub> =0	40			V	
I <sub>CBO</sub>	Collector Cut-off Current	V <sub>CB</sub> =30V, I <sub>E</sub> =0			0.1	μΑ	
h <sub>FE</sub>	DC Current Gain	V <sub>CE</sub> =5V, I <sub>C</sub> =1mA	100		600		
V <sub>CE</sub> (sat)	Collector-Emitter Saturation Voltage	I <sub>C</sub> =10mA, I <sub>B</sub> =1mA			0.3	V	
C <sub>ob</sub>	Output Capacitance	V <sub>CB</sub> =10V, I <sub>E</sub> =0 f=1MHz		3.7		pF	
f <sub>T</sub>	Current Gain Bandwidth Product	V <sub>CE</sub> =10V, I <sub>C</sub> =5mA		250		MHz	
R	Input Resistor		32	47	62	KΩ	

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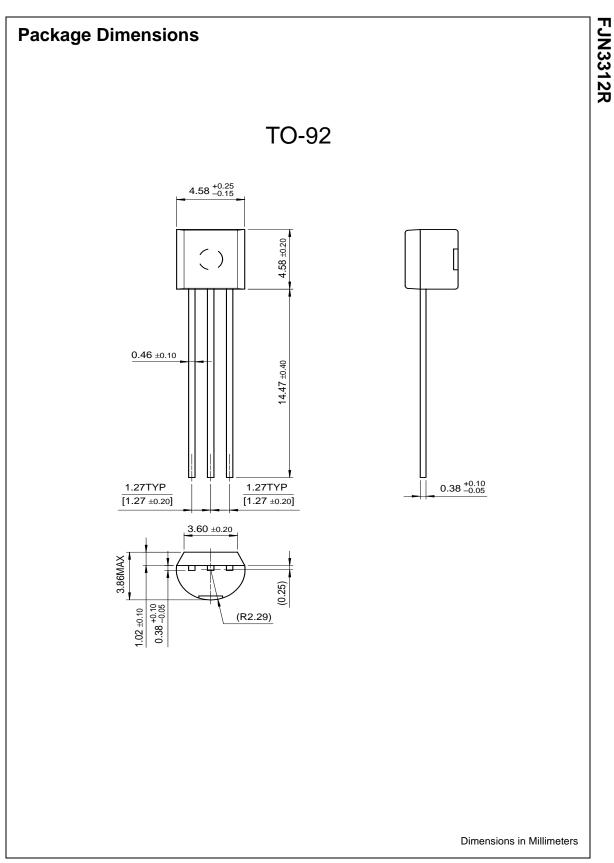
Rev. A, August 2002

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	EcoSPARK™	GTO™	MSX™	QT Optoelectronics <sup>™</sup>	TinyLogic™
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	EnSigna™	I <sup>2</sup> C™	OCX™	RapidConfigure™	UHC™
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	Programmable Ac	ctive Droop™	OPTOPLANAR™	SMART START™	

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