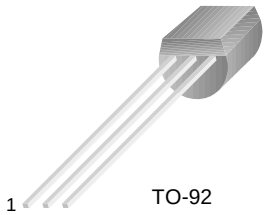
FAIRCHILD
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FJN4306R

Switching Application (Bias Resistor Built In)

- Switching circuit, Inverter, Interface circuit, Driver Circuit
- Built in bias Resistor (R_1=10KΩ, R_2=47KΩ)
- Complement to FJN3306R



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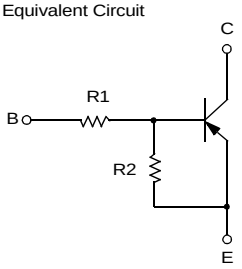
1. Emitter 2. Collector 3. Base

PNP 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
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	-55 ~ 150	°C

Equivalent Circuit



Electrical Characteristics T_a=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Breakdown Voltage	I_C= -10μA, 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	μA
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
C_{ob}	Output Capacitance	V_{CB}= -10V, I_E=0 f=1.0MHz		5.5		pF
f_T	Current Gain Bandwidth Product	V_{CE}= -10V, I_C= -5mA		200		MHz
V_I(off)	Input Off Voltage	V_{CE}= -5V, I_C= -100μA	-0.3			V
V_I(on)	Input On Voltage	V_{CE}= -0.3V, I_C= -1mA			-1.4	V
R_1	Input Resistor		7	10	13	KΩ
R_1/R_2	Resistor Ratio		0.19	0.21	0.24	

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Typical Characteristics

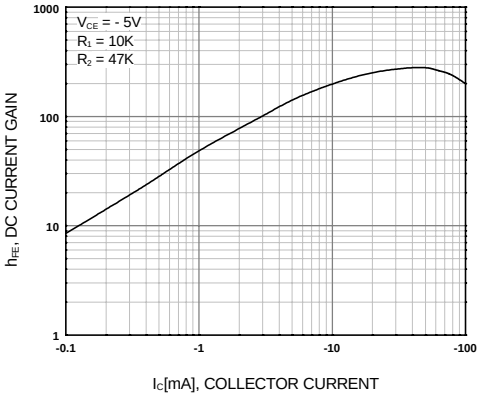


Figure 1. DC current Gain

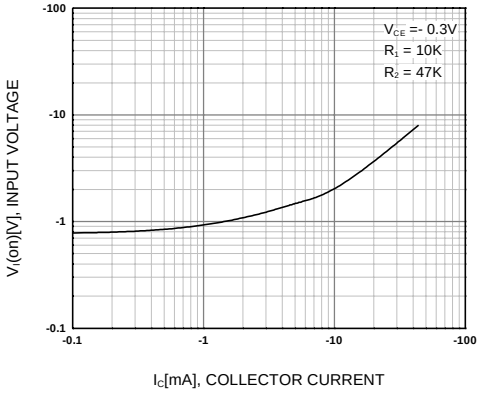


Figure 2. Input On Voltage

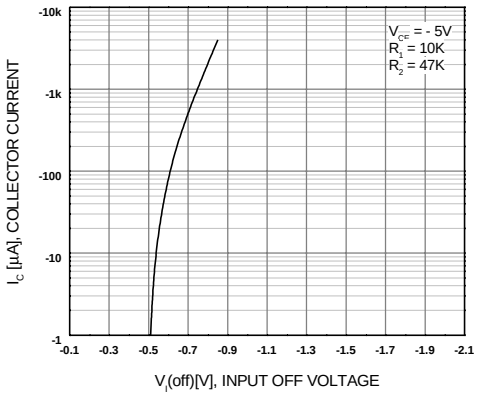


Figure 3. Input Off Voltage

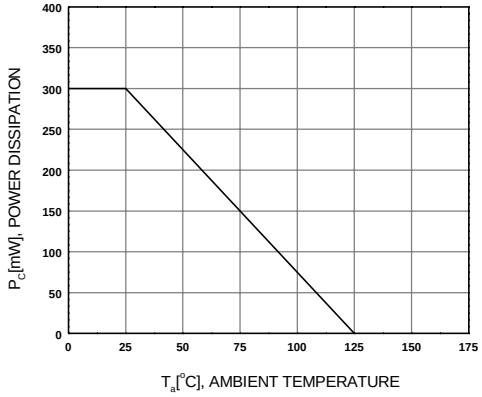
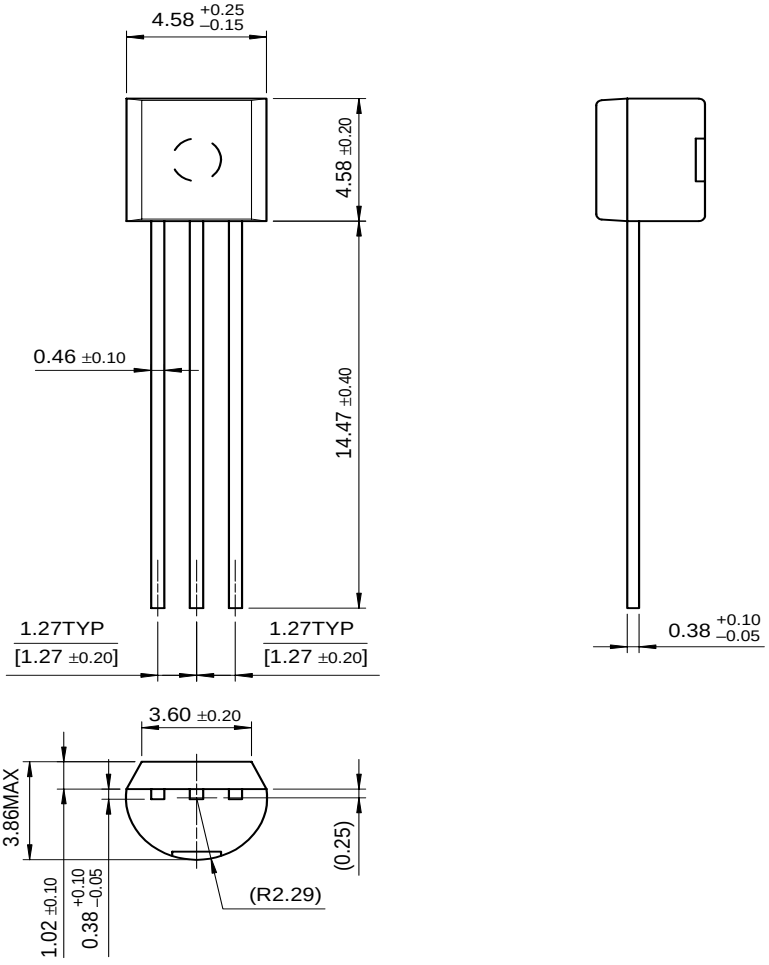


Figure 4. Power Derating

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Package Dimensions

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Dimensions in Millimeters

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CROSSVOLT™	FRFET™	MicroPak™	QFET™	SuperSOT™-8
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E^2CMOS^{TM}	HiSeC™	MSXPro™	Quiet Series™	TruTranslation™
$EnSigna^{TM}$	I^2C™	OCX™	RapidConfigure™	UHC™
Across the board. Around the world.™		OCXPro™	RapidConnect™	UltraFET®
The Power Franchise™		OPTOLOGIC®	SILENT SWITCHER®	VCX™
Programmable Active Droop™		OPTOPLANAR™	SMART START™	

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2. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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No Identification Needed	Full Production	This datasheet contains final specifications. Fairchild Semiconductor reserves the right to make changes at any time without notice in order to improve design.
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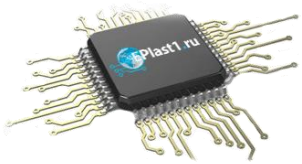
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Как с нами связаться

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