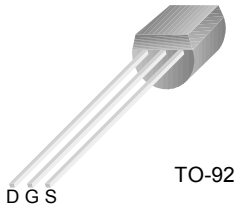
FAIRCHILD SEMICONDUCTOR®

BF246B
N-Channel Switch

- This device is designed for low level analog switching, sample and hold circuits and chopper stabalized amplifiers.
- Sourced from process 51.
- See J111 for characteristics.



1. Drain 2. Gate 3. Source

Absolute Maximum Ratings* T_a = 25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{DG}	Drain-Gate Voltage	25	V
V_{GS}	Gate-Source Voltage	-25	V
I_{GF}	Forward Gate Current	50	mA
T_J, T_{STG}	Operating and Storage Junction Temperature Range	-55 ~ 150	°C

* These ratings are limiting values above which the serviceability of any semiconductor device may e impaired.

Notes:

1. These ratings are based on a maximum junction temperature of 150 degrees C.
2. These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.

Electrical Characteristics T_a = 25°C unless otherwise noted

Symbol	Parameter	Conditions	Min.	Max	Units
Off Characteristics					
$V_{(BR)GSS}$	Gate-Source Breakdown Voltage	I_G = 1.0μA, V_{DS} = 0	-25		V
I_{GSS}	Gate Reverse Current	V_{GS} = -15V, V_{DS} = 0		-5.0	nA
$V_{GS(off)}$	Gate-Source Cutoff Voltage	V_{DS} = 15V, I_D = 10nA	-0.6	-14.5	V
On Characteristics*					
I_{DSS}	Zero-Gate Voltage Drain Current *	V_{DS} = 15V, V_{GS} = 0	60	140	mA

Thermal Characteristics T_a = 25°C unless otherwise noted

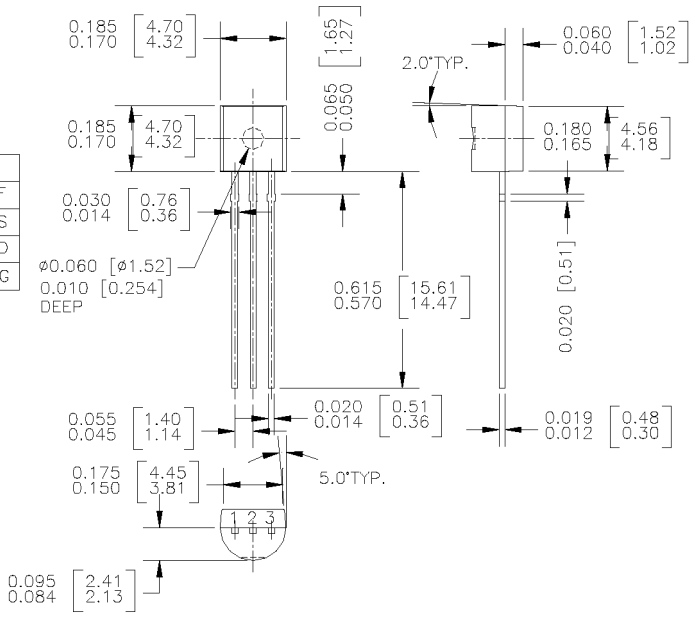
Symbol	Parameter	Value	Units
P_D	Total Device Dissipation	625 5.0	mW mW/°C
$R_{\theta JC}$	Thermal Resistance, Junction to Case	125	°C/W
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	357	°C/W

Mechanical Dimensions

TO-92

TO−92 (92,94,96)

PIN	92		94		96	
	B	F	B	F	B	F
1	E	D	E	D	B	S
2	B	S	C	G	E	D
3	C	G	B	S	C	G



Dimensions in Millimeters

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