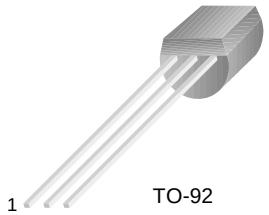
FAIRCHILD
SEMICONDUCTOR®

MPS751

Silicon PNP Transistor (Note 1)

- Low Saturation Voltage



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1. Emitter 2. Base 3. Collector

Absolute Maximum Ratings T_C=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V_{CEO}	Collector-Emitter Voltage	-60	V
I_C	Collector Current (DC)	2	A
P_C	Collector Dissipation (T_a=25°C) (Note 2, 3)	625	mW
T_J	Junction Temperature	150	°C
T_{STG}	Storage Temperature	- 55 ~ 150	°C

Electrical Characteristics T_C=25°C unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Typ.	Max.	Units
BV_{CBO}	Collector-Base Voltage	I_C = 100μA	-80			V
BV_{CEO}	Collector-Emitter Voltage	I_C = 10mA	-60			V
BV_{EBO}	Emitter-Base Voltage	I_E = 10μA	-5			V
I_{CBO}	Collector Cut-off Current	V_{CB} = 30V			100	nA
I_{EBO}	Emitter Cut-off Current	V_{EB} = 3V			100	nA
h_{FE}	DC Current Gain	V_{CE} = 2V, I_C = 50mA V_{CE} = 2V, I_C = 500mA V_{CE} = 2V, I_C = 1A V_{CE} = 2V, I_C = 2A	75 75 75 40			
V_{CE}(sat)	Collector-Emitter Saturation Voltage	I_C = 2A, I_B = 200mA I_C = 1A, I_B = 100mA			0.5 0.3	V
V_{BE}(sat)	Base-Emitter Saturation Voltage	I_C = 1A, I_B = 100mA			1.2	V
V_{BE}(on)	Base-Emitter On Voltage	V_{CE} = 5V, I_C = 2mA			1	V
f_T	Current gain Bandwidth Product	V_{CE} = 5V, I_C = 50mA f = 100MHz	75			MHz

Notes:
1. These ratings are limiting values above which the serviceability of any semiconductor device may be impaired.
2. These are steady state limits. The factory should be consulted on applications involving pulsed or low duty cycle operations.
3. These ratings are based on a maximum junction temperature of 150degrees C.

Package Dimensions

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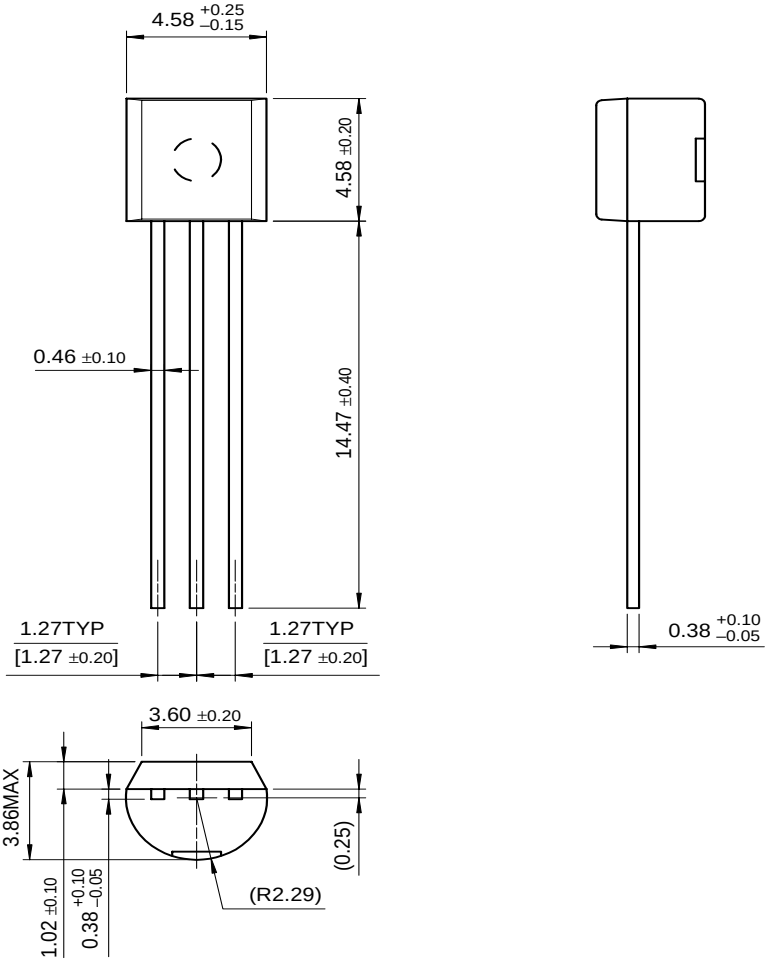

Dimensions in Millimeters

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