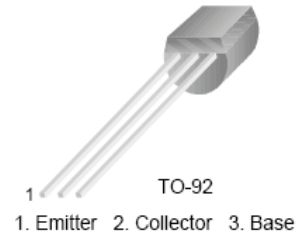


2N6076

PNP Small Signal Transistor

Features

- V_{CE0} 25V(Min)
- h_{FE} 100(Min) @ $V_{CE}=10V$, $I_C=10mA$
- Pb free



Absolute Maximum Ratings $T_a = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	-25	V
V_{CEO}	Collector-Emitter Voltage	-25	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current	500	mA
T_J	Junction Temperature	150	$^\circ C$
T_{STG}	Storage Temperature Range	-55 ~ 150	$^\circ C$

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

Thermal Characteristics* $T_a = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Max	Unit
P_C	Collector Power Dissipation, by $R_{\theta JA}$	625	mW
$R_{\theta JA}$	Thermal Resistance, Junction to Ambient	200	$^\circ C/W$

* 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 150 degrees C.

4. Minimum land pad.

Electrical Characteristics* $T_a = 25^\circ C$ unless otherwise noted

Symbol	Parameter	Test Condition	Min.	Max.	Unit
BV_{CBO}	Collector-Base Breakdown Voltage	$I_C = -100\mu A$, $I_E = 0$	-25		V
BV_{CEO}	Collector-Emitter Breakdown Voltage	$I_C = -10mA$, $I_B = 0$	-25		V
BV_{EBO}	Emitter-Base Breakdown Voltage	$I_E = -10\mu A$, $I_C = 0$	-5		V
I_{CBO}	Collector Cut-off Current	$V_{CE} = -25V$ $V_{CE} = -25V$, $T = +100^\circ C$		-100 10	nA uA
I_{CES}	Collector Cut-off Current	$V_{CE} = -25V$		-100	nA
I_{EBO}	Emitter Cut-off Current	$V_{CE} = -3V$		-100	nA
h_{FE}	DC Current Gain	$V_{CE} = 1V$, $I_C = -10mA$	100	500	
$V_{CE(sat)}$	Collector-Emitter Saturation Voltage	$I_C = -10mA$, $I_B = -1mA$		-0.25	V
$V_{BE(sat)}$	Base-Emitter Saturation Voltage	$I_C = -10mA$, $I_B = -1mA$		-0.80	V
$V_{BE(on)}$	Base-Emitter On Voltage	$V_{CE} = -10V$, $I_C = -10mA$	-0.5	-1.2	V
C_{cb}	Output Capacitance	$V_{CB} = -10V$, $f = 1MHz$	1	13	pF
h_{fe}	Small Signal Current Gain	$V_{CE} = -10V$, $I_C = 10mA$, $f = 1kHz$	100	750	

* DC Item are tested by Pulse Test : Pulse Width $\leq$ 300us, Duty Cycle $\leq$ 2%



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