

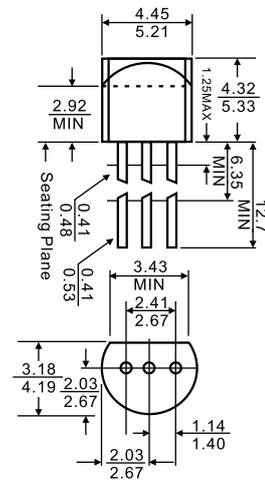
2N5400(PNP)

TO-92 Bipolar Transistors



1. EMITTER
2. BASE
3. COLLECTOR

TO-92



Dimensions in inches and (millimeters)

Features

- ✧ Switching and amplification in high voltage Applications such as telephony
- ✧ Low current(max. 600mA)
- ✧ High voltage(max.130v)

MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise noted)

Symbol	Parameter	Value	Units
V_{CB0}	Collector-Base Voltage	-130	V
V_{CE0}	Collector-Emitter Voltage	-120	V
V_{EB0}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-0.6	A
P_C	Collector Power Dissipation	0.625	W
T_j	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55-150	$^\circ\text{C}$

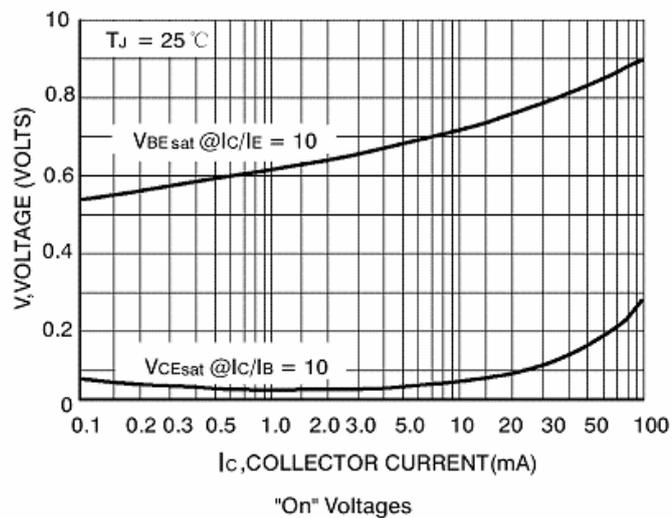
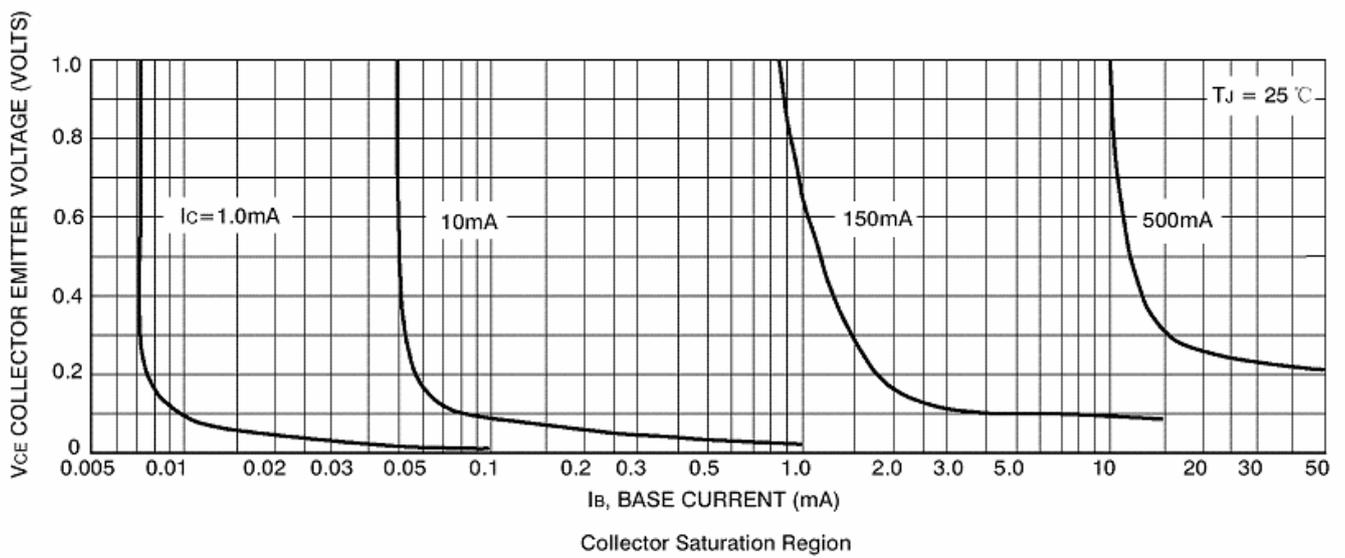
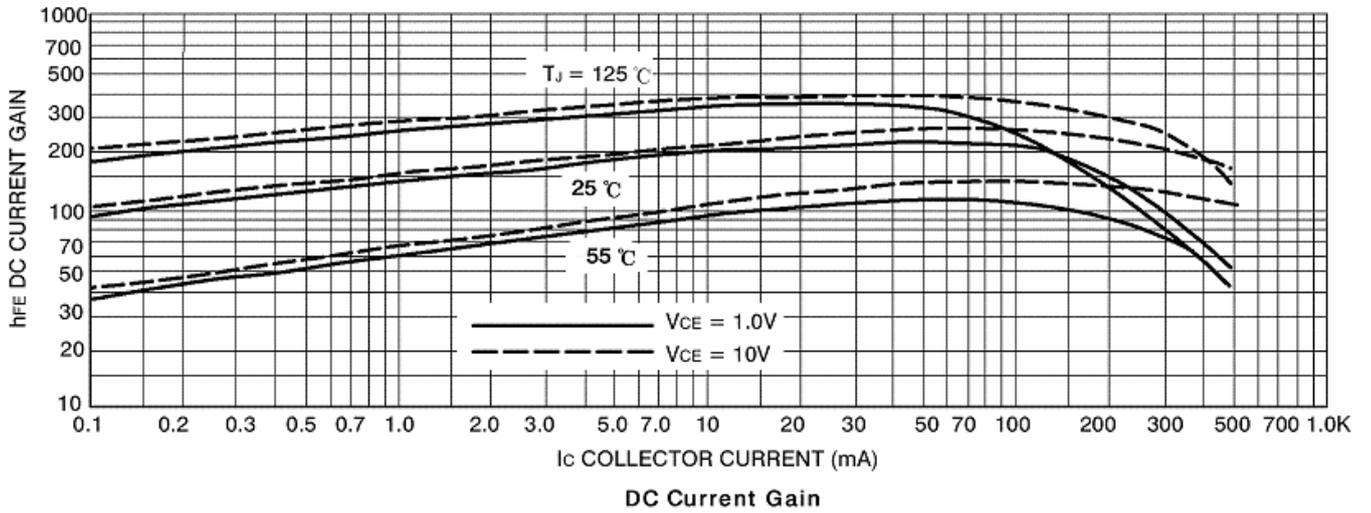
ELECTRICAL CHARACTERISTICS ($T_{amb}=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CB0}$	$I_C=-100\mu\text{A}, I_E=0$	-130			V
Collector-emitter breakdown voltage	$V_{(BR)CE0}$	$I_C=-1\text{mA}, I_B=0$	-120			V
Emitter-base breakdown voltage	$V_{(BR)EB0}$	$I_E=-10\mu\text{A}, I_C=0$	-5			V
Collector cut-off current	I_{CB0}	$V_{CB}=-100\text{V}, I_E=0$			-0.1	μA
Emitter cut-off current	I_{EB0}	$V_{EB}=-3\text{V}, I_C=0$			-0.1	μA
DC current gain	h_{FE1}	$V_{CE}=-5\text{V}, I_C=-1\text{mA}$	30			
	h_{FE2}	$V_{CE}=-5\text{V}, I_C=-10\text{mA}$	40		180	
	h_{FE3}	$V_{CE}=-5\text{V}, I_C=-50\text{mA}$	40			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$			-0.2	V
	$V_{CE(sat)}$	$I_C=-50\text{mA}, I_B=-5\text{mA}$			-0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$			-1	V
	$V_{BE(sat)}$	$I_C=-50\text{mA}, I_B=-5\text{mA}$			-1	V
Transition frequency	f_T	$V_{CE}=-10\text{V}, I_C=-10\text{mA}$ $f=30\text{MHz}$	100			MHz
Collector output capacitance	C_{ob}	$V_{CB}=-10\text{V}, I_E=0, f=1\text{MHz}$			6	pF

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Typical Characteristics



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