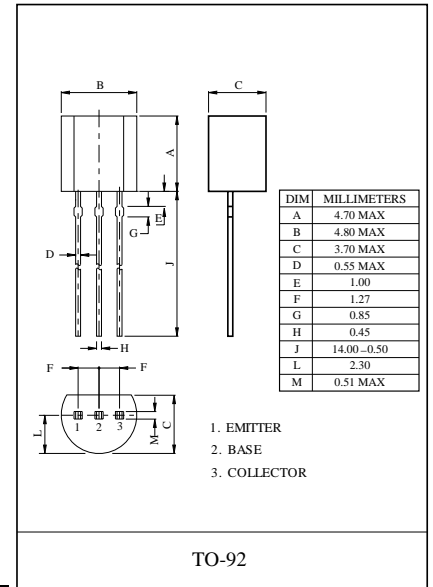


## 2N6520 TRANSISTOR (PNP)

### FEATURES

- Complement to 2N6517



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

Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector-Base Voltage	-350	V
$V_{CEO}$	Collector-Emitter Voltage	-350	V
$V_{EBO}$	Emitter-Base Voltage	-5	V
$I_C$	Collector Current	-0.5	A
$P_C$	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	$^\circ\text{C/W}$
$T_j$	Junction Temperature	150	$^\circ\text{C}$
$T_{stg}$	Storage Temperature	-55~+150	$^\circ\text{C}$

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-0.1\text{mA}, I_E=0$	-350			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-350			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-0.01\text{mA}, I_C=0$	-5			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-250\text{V}, I_E=0$			-0.05	$\mu\text{A}$
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-4\text{V}, I_C=0$			-0.05	$\mu\text{A}$
DC current gain	$h_{FE}$	$V_{CE}=-10\text{V}, I_C=-1\text{mA}$	20			
		$V_{CE}=-10\text{V}, I_C=-10\text{mA}$	30			
		$V_{CE}=-10\text{V}, I_C=-30\text{mA}$	30		200	
		$V_{CE}=-10\text{V}, I_C=-50\text{mA}$	20		200	
		$V_{CE}=-10\text{V}, I_C=-100\text{mA}$	15			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$			-0.3	V
		$I_C=-20\text{mA}, I_B=-2\text{mA}$			-0.35	V
		$I_C=-30\text{mA}, I_B=-3\text{mA}$			-0.5	V
		$I_C=-50\text{mA}, I_B=-5\text{mA}$			-1	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$			-0.75	V
		$I_C=-20\text{mA}, I_B=-2\text{mA}$			-0.85	V
		$I_C=-30\text{mA}, I_B=-3\text{mA}$			-0.9	V
Base-emitter voltage	$V_{BE}$	$V_{CE}=-10\text{V}, I_C=-100\text{mA}$			-2	V
Transition frequency	$f_T$	$V_{CE}=-20\text{V}, I_C=-10\text{mA}, f=20\text{MHz}$	40		200	MHz

\*Pulse test: pulse width  $\leq 300\mu\text{s}$ , duty cycle  $\leq 2.0\%$ .