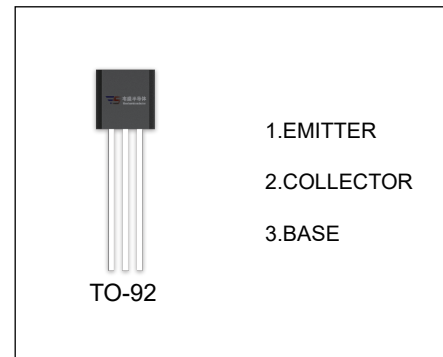


2N6520 TRANSISTOR (PNP)

FEATURES

- Complement to 2N6517



ORDERING INFORMATION

Part Number	Package	Packing Method	Pack Quantity
2N6520	TO-92	Bulk	1000pcs/Bag
2N6520-TA	TO-92	Tape	2000pcs/Box

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-350	V
V _{CEO}	Collector-Emitter Voltage	-350	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-0.5	A
P _D	Collector Power Dissipation	625	mW
R _{θJA}	Thermal Resistance from Junction to Ambient	200	°C /W
T _J , T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

$T_a=25\text{ }^\circ\text{C}$ 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	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-4\text{V}, I_C=0$			-0.05	μA
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 $\leq 2.0\%$.

