



## TO-92 Plastic-Encapsulated Transistors

### 2N6520 TRANSISTOR (PNP)

#### FEATURES

Power dissipation

$P_{CM}$  : 0.625 W (Tamb=25°C)

Collector current

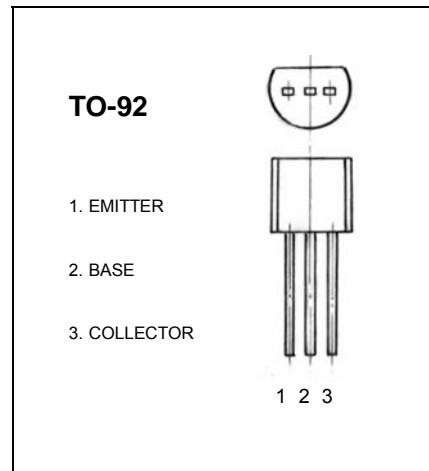
$I_{CM}$  : -0.5 A

Collector-base voltage

$V_{(BR)CBO}$  : -350 V

Operating and storage junction temperature range

$T_J, T_{stg}$ : -55°C to +150°C



#### ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

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

\* Pulse test, Pulse width  $\leq 300 \mu s$ , Duty cycle  $\leq 2\%$ .