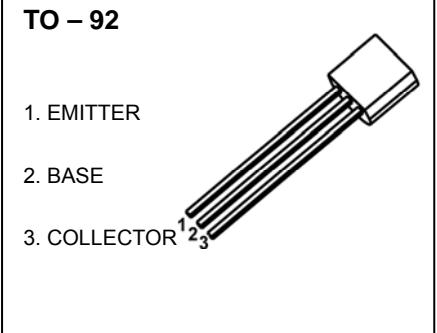


**2N5087** TRANSISTOR (PNP)**FEATURES**

- General Purpose Amplifier Transistor

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

Symbol	Parameter	Value	Unit
$V_{CBO}$	Collector-Base Voltage	-50	V
$V_{CEO}$	Collector-Emitter Voltage	-50	V
$V_{EBO}$	Emitter-Base Voltage	-3	V
$I_c$	Collector Current	-50	mA
$P_c$	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	°C/W
$T_j$	Junction Temperature	150	°C
$T_{stg}$	Storage Temperature	-55~+150	°C

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

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-0.1\text{mA}, I_E=0$	-50			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-50			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-0.01\text{mA}, I_C=0$	-3			V
Collector cut-off current	$I_{CBO}$	$V_{CB}=-35\text{V}, I_E=0$			-50	nA
Emitter cut-off current	$I_{EBO}$	$V_{EB}=-3\text{V}, I_C=0$			-50	nA
DC current gain	$h_{FE}(1)^*$	$V_{CE}=-5\text{V}, I_C=-0.1\text{mA}$	250		800	
	$h_{FE}(2)^*$	$V_{CE}=-5\text{V}, I_C=-1\text{mA}$	250			
	$h_{FE}(3)^*$	$V_{CE}=-5\text{V}, I_C=-10\text{mA}$	250			
Collector-emitter saturation voltage	$V_{CE(sat)}^*$	$I_C=-10\text{mA}, I_B=-1\text{mA}$			-0.3	V
Base-emitter voltage	$V_{BE}^*$	$V_{CE}=-5\text{V}, I_C=-10\text{mA}$			-0.85	V
Collector output capacitance	$C_{ob}$	$V_{CB}=-5\text{V}, I_E=0, f=1\text{MHz}$			4	pF
Transition frequency	$f_T$	$V_{CE}=-5\text{V}, I_C=-0.5\text{mA}, f=100\text{MHz}$	40			MHz

\*Pulse test: pulse width  $\leq 380\mu\text{s}$ , duty cycle  $\leq 2.0\%$ .