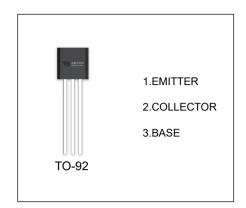


2N5087 TRANSISTOR (PNP)

FEATURES

• General Purpose Amplifier Transistor



MAXIMUM RATINGS (T_a =25 $^{\circ}$ 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
Ic	Collector Current	-50	mA
Pc	Collector Power Dissipation	625	mW
$R_{\theta JA}$	Thermal Resistance From Junction To Ambient	200	°C/W
T _J ,T _{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

ELECTRICAL CHARACTERISTICS (T_a=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-0.1mA,I _E =0	-50			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-1mA,I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-0.01mA,I _C =0	-3			V
Collector cut-off current	I _{CBO}	V _{CB} =-35V,I _E =0			-50	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-3V,I _C =0			-50	nA
	h _{FE(1)} *	V _{CE} =-5V, I _C =-0.1mA	250		800	
DC current gain	h _{FE(2)}	V _{CE} =-5V, I _C =-1mA	250			
	h _{FE(3)} *	V _{CE} =-5V, I _C =-10mA	250			
Collector-emitter saturation voltage	V _{CE(sat)} *	I _C =-10mA,I _B =-1mA			-0.3	V
Base-emitter voltage	V _{BE} *	V _{CE} =-5V, I _C =-10mA			-0.85	V
Collector output capacitance	C _{ob}	V _{CB} =-5V,I _E =0, f=1MHz			4	pF
Transition frequency	f _T	Vc=-5V,lc=-0.5mA, f=100MHz	40			MHz

^{*}Pulse test: pulse width ≤380µs, duty cycle≤ 2.0%.