

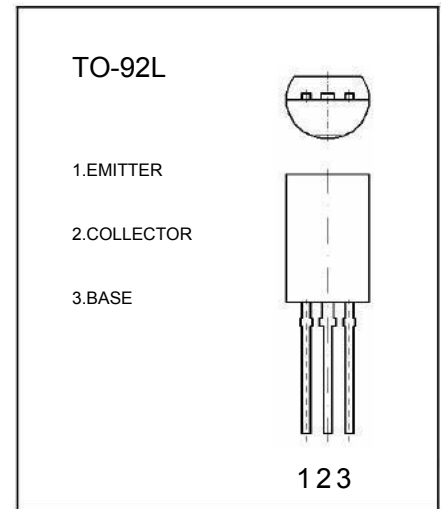


TO-92L Plastic-Encapsulate Transistors

A1972 TRANSISTOR(PNP)

FEATURES

Low collector to emitter saturation voltage $V_{CE(sat)}$.



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

Symbol	Parameter		Units
V_{CBO}	Collector-Base Voltage	-400	V
V_{CEO}	Collector-Emitter Voltage	-400	V
V_{EBO}	Emitter-Base Voltage	-7	V
I_C	Collector Current-Continuous	-0.5	A
P_C	Collector Power Dissipation	0.9	W
T_J	Junction Temperature	150	$^\circ\text{C}$
T_{stg}	Storage Temperature	-55-150	$^\circ\text{C}$

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

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-10\text{mA}, I_B=0$	-400			V
Collector cut-off current	I_{CBO}	$V_{CB}=-400\text{V}, I_E=0$			-10	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=-7\text{V}, I_C=0$			-1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=-5\text{V}, I_C=-20\text{mA}$	140		450	
DC current gain	$h_{FE(2)}$	$V_{CE}=-5\text{V}, I_C=-100\text{mA}$	140		400	
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-100\text{mA}, I_B=-10\text{mA}$		-0.4	-1.0	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-100\text{mA}, I_B=-10\text{mA}$		-0.76	-0.9	V
Transition frequency	f_T	$V_{CE}=-5\text{V}, I_C=-50\text{mA}$		35		MHz

CLASSIFICATION OF $h_{FE(1)}$

Rank	1	2	3
Range	140-2000	200-300	300-400

