



TO-92L Plastic-Encapsulate Transistors

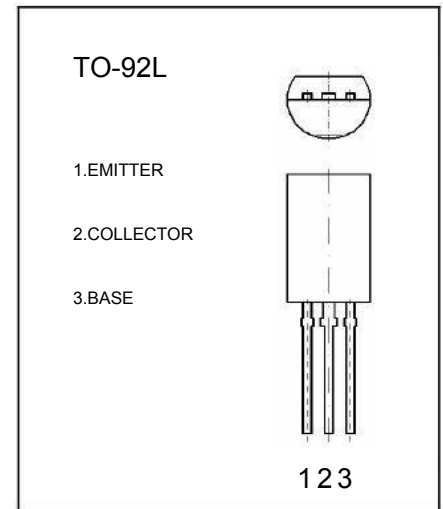
D882 TRANSISTOR (NPN)

FEATURES

Low collector to emitter saturation voltage $V_{CE(sat)}$.
Complementary pair with B772

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

Symbol	Parameter		Units
V_{CBO}	Collector-Base Voltage	40	V
V_{CEO}	Collector-Emitter Voltage	30	V
V_{EBO}	Emitter-Base Voltage	6	V
I_C	Collector Current – Continuous	2.0	A
P_C	Collector Power Dissipation	1.25	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-base breakdown voltage	$V_{(BR)CBO}$	$I_C=100\mu\text{A}, I_E=0$	40			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=10\text{mA}, I_B=0$	30			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}, I_C=0$	6			V
Collector cut-off current	I_{CBO}	$V_{CB}=40\text{V}, I_E=0$			1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=30\text{V}, I_E=0$			10	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=6\text{V}, I_C=0$			1	μA
DC current gain(note)	h_{FE}	$V_{CE}=2\text{V}, I_C=1\text{A}$	60		400	
DC current gain(note)	h_{FE}	$V_{CE}=2\text{V}, I_C=100\text{mA}$	32			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=2\text{A}, I_B=0.2\text{A}$			0.5	V
Base-emitter voltage	V_{BE}	$I_C=2\text{A}, I_B=0.2\text{A}$			1.5	V
Transition frequency	f_r	$V_{CE}=5\text{V}, I_C=0.1\text{A}$ $f=10\text{MHz}$	50			MHz

CLASSIFICATION OF $h_{FE(1)}$

Rank	R	O	Y	GR
Range	60-123	100-200	160-320	200-400