



TO-92L Plastic-Encapsulate Transistors

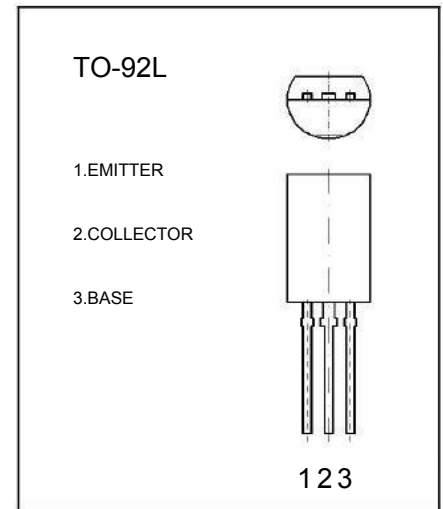
B716 TRANSISTOR(PNP)

FEATURES

Low collector to emitter saturation voltage $V_{CE(sat)}$.
Complementary pair with D756

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

Symbol	Parameter		Units
V_{CBO}	Collector-Base Voltage	-120	V
V_{CEO}	Collector-Emitter Voltage	-120	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current-Continuous	-0.05	A
P_C	Collector Power Dissipation	-0.75	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	$V_{(BR)CBO}$	$I_C=-10\mu\text{A}, I_E=0$	-120			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	$I_C=-1\text{mA}, I_B=0$	-120			V
Collector cut-off current	I_{CBO}	$V_{CB}=-100\text{V}, I_E=0$			-0.5	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=-12\text{V}, I_C=-2\text{mA}$	250		800	
DC current gain	$h_{FE(2)}$	$V_{CE}=-12\text{V}, I_C=-10\text{mA}$	125			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=-10\text{mA}, I_B=-1\text{mA}$			-0.2	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C=-2\text{mA}, V_{CE}=-12\text{V}$			-0.75	V
Transition frequency	f_T	$V_{CE}=-12\text{V}, I_C=-5\text{mA}$		150		MHz

CLASSIFICATION OF $h_{FE(1)}$

Rank	D	E
Range	250-500	400-800

