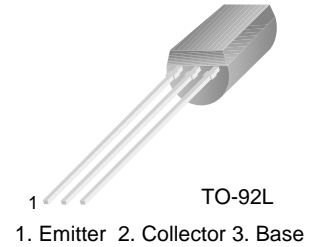


■■ APPLICATION: Low Frequency Amplifier Applications.

■■ MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	RATING	UNIT
Collector-base voltage	V_{CBO}	-30	V
Collector-emitter voltage	V_{CEO}	-30	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-1.5	A
Collector Power Dissipation	P_C	900	mW
Junction Temperature	T_J	150	$^\circ\text{C}$
Storage Temperature Range	T_{stg}	- 55~150	$^\circ\text{C}$


■■ ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
DC Current Gain	h_{FE1}	100		400		$V_{CE}=-2\text{ V}$, $I_C=-500\text{ mA}$
	h_{FE2}	50				$V_{CE}=-2\text{ V}$, $I_C=-10\text{ mA}$
Collector Cut-off Current	I_{CBO}			-0.1	μA	$V_{CB}=-30\text{ V}$, $I_E=0$
	$I_{CBO(2)}$			-10	μA	$V_{CB}=-20\text{ V}$, $I_E=0$, $T_{amb}=125^\circ\text{C}$
Emitter Cut-off Current	I_{EBO}			-0.1	μA	$V_{EB}=-5\text{ V}$, $I_C=0$
Collector-Base Breakdown Voltage	BV_{CBO}	-30			V	$I_C=-0.1\text{ mA}$, $I_E=0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-30			V	$I_C=-10\text{ mA}$, $I_B=0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5			V	$I_E=-0.1\text{ mA}$, $I_C=0$
Base-Emitter Voltage	V_{BE}			-1	V	$V_{CE}=-2\text{ V}$, $I_C=-500\text{ mA}$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$			-2	V	$I_C=-1.5\text{ A}$, $I_B=-30\text{ mA}$
Gain bandwidth product	f_T	50			MHZ	$I_C=-100\text{ mA}$, $V_{CE}=-5\text{ V}$, $f=50\text{ MHz}$
Common Base Output Capacitance	C_{ob}			80	PF	$V_{CB}=-10\text{ V}$, $I_E=0$, $f=1\text{ MHz}$

■■ h_{FE} Classification

Classification	O	Y
h_{FE}	100~240	150~400