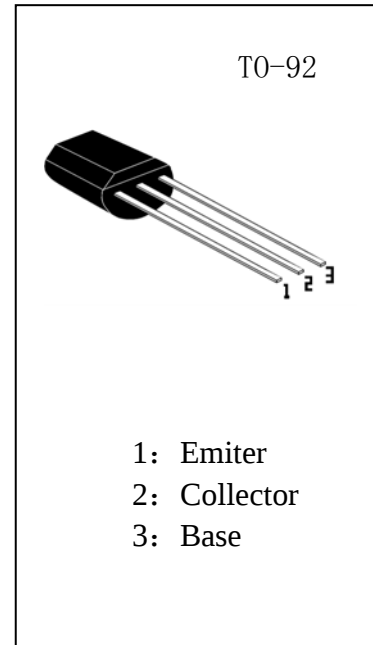


LOW FREQUENCY AMPLIFIER

- * Complement to 2SC945
- * Collector-Base Voltage $V_{CBO} = -60V$

ABSOLUTE MAXIMUM RATINGS at $T_{amb}=25^{\circ}C$

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	-60	V
Collector-Emitter Voltage	V_{CEO}	-50	V
Emitter-Base Voltage	V_{EBO}	-5	V
Collector Current	I_C	-100	mA
Base Current	I_B	-20	mA
Collector Dissipation	P_C	250	mW
Junction Temperature	T_J	150	$^{\circ}C$
Storage Temperature	T_{stg}	-55 ~ 150	$^{\circ}C$


ELECTRICAL CHARACTERISTICS at $T_{amb}=25^{\circ}C$

Characteristic	Symbol	Min	Typ	Max	Unit	Test Conditions
Collector-Base Breakdown Voltage	BV_{CBO}	-60			V	$I_C = -100\mu A$ $I_E = 0$
Collector-Emitter Breakdown Voltage	BV_{CEO}	-50			V	$I_C = -1mA$ $I_B = 0$
Emitter-Base Breakdown Voltage	BV_{EBO}	-5			V	$I_E = -100\mu A$ $I_C = 0$
Collector Cutoff Current	I_{CBO}			-100	nA	$V_{CB} = -60V$ $I_E = 0$
Emitter Cutoff Current	I_{EBO}			-100	nA	$V_{EB} = -5V$ $I_C = 0$
DC Current Gain	H_{FE}	40		700		$V_{CE} = -6V$ $I_C = -1mA$
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$		-0.18	-0.3	V	$I_C = -100mA$ $I_B = -10mA$
Base-Emitter On Voltage	$V_{BE(on)}$	-0.58	-0.62	-0.68	V	$V_{CE} = -6V$ $I_C = -1mA$
Output Capacitance	C_{ob}		4.5	6	pF	$V_{CB} = -10V$ $f = 1MHz$
Current Gain-Bandwidth Product	f_T	50	180		MHz	$V_{CE} = -6V$ $I_C = -10mA$
Noise Figure	NF		6	20	dB	$I_C = -0.3mA$ $V_{CE} = -6V$
						$R_g = 10K\Omega$ $f = 100Hz$

CLASSIFICATION H_{FE}

Classification	R	O	Y	G	L
H_{FE}	40-80	70-140	120-240	200-400	350-700