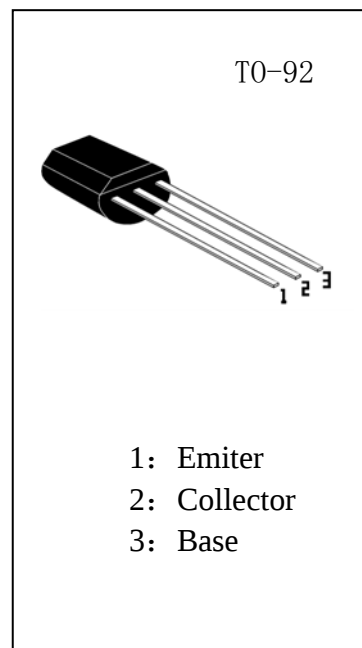


LOW FREQUENCY AMPLIFIER

- * Complement to 2SA733
- * 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	m W
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	$V_{eb}=3V$ $I_c=0$
DC Current Gain	H_{fe}	40		700		$V_{ce}=6V$ $I_c=1mA$
Collector-Emitter Saturation Voltage	$V_{ce(sat)}$		0.15	0.3	V	$I_c=100mA$ $I_b=10mA$
Base-Emitter Saturation Voltage	$V_{be(sat)}$			1	V	$I_c=100mA$ $I_b=10mA$
Output Capacitance	C_{ob}			4	pF	$V_{cb}=6V$ $f=1MHz$
Current Gain-Bandwidth Product	f_T	150			MHz	$V_{ce}=6V$ $I_c=10mA$
Noise Figure	NF			15	d B	$I_c=0.5mA$ $V_{ce}=6v$
						$R_g=2Kohm$ $f=1KHz$

CLASSIFICATION HFE

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