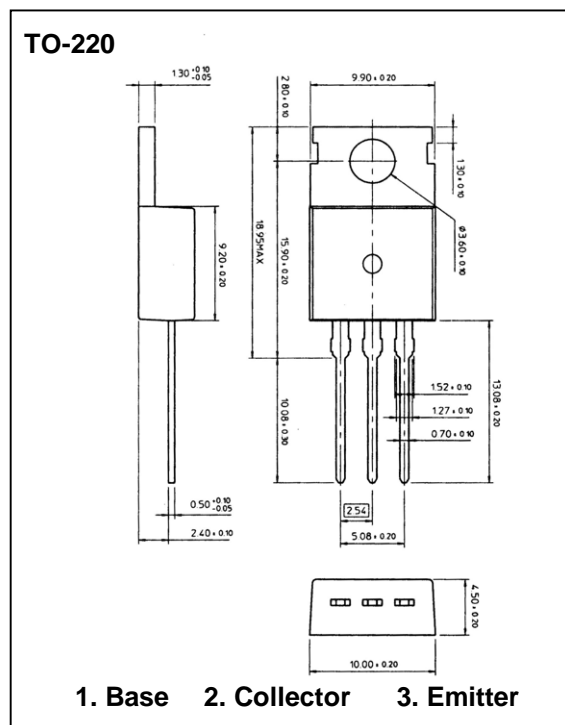


LOW FREQUENCY POWER AMPLIFIER

- Complement to B834
- Collector-Emitter Voltage: $V_{CEO}=150V$
- Collector Dissipation: $P_C(max)=30W$

Absolute Maximum Ratings (TA=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	V_{CBO}	60	V
Collector-Emitter Voltage	V_{CEO}	60	V
Emitter-Base Voltage	V_{EBO}	7	V
Collector Current	I_C	3	A
Collector Dissipation	P_C	30	W
Junction Temperature	T_J	150	°C
Storage Temperature	T_{STG}	-55~+150	°C



Electrical Characteristics (TA=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Collector-Emitter Breakdown Voltage	BV_{CEO}	$I_C=50mA, I_B=0$	60			V
Emitter Cut-off Current	I_{EBO}	$V_{EB}=7V, I_C=0$			100	μA
Collector Cut-off Current	I_{CBO}	$V_{CB}=60V, I_E=0$			100	μA
DC Current Gain	$h_{FE(1)}$	$V_{CE}=5V, I_C=0.5A$	60		300	
	$h_{FE(2)}$	$V_{CE}=5V, I_C=3A$	20			
Collector-Emitter Saturation Voltage	$V_{CE(SAT)}$	$I_C=3A, I_B=0.3A$		0.4	1	V
Base-Emitter On Voltage	$V_{BE(ON)}$	$V_{CE}=5V, I_C=0.5A$		0.7	1	V
Current Gain Bandwidth Product	f_T	$V_{CE}=5V, I_C=0.5A$		3		MHz
Output Capacitance	C_{OB}	$V_{CB}=10V, I_E=0, f=1MHz$		70		pF
Turn On Time	t_{ON}	$V_{CC}=30V, I_C=1A$		0.8		μs
Storage Time	t_{STG}	$I_{B1}=-I_{B2}=0.2A$		1.5		μs
Fall Time	t_F	$R_L=30$		0.8		μs

h_{FE} CLASSIFICATION

Classification	O	Y	G
h_{FE1}	60 - 120	100 - 200	150 - 300