

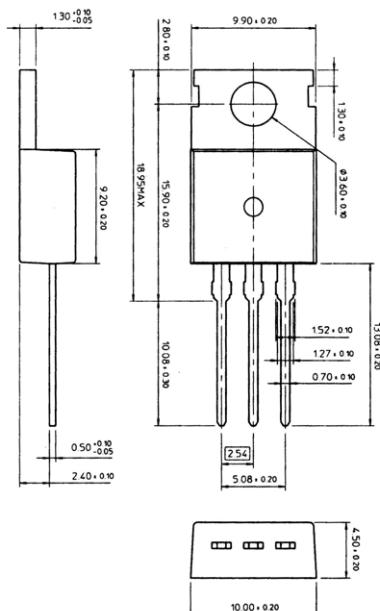
## LOW FREQUENCY POWER AMPLIFIER

- 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

TO-220



## 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