

AUDIO FREQUENCY AMPLIFIER APPLICATIONS.

### FEATURES

- Complementary to MPSA05.
- Driver Stage Application of 20 to 25 Watts Amplifiers.

### MAXIMUM RATING (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	$V_{CBO}$	-60	V
Collector-Emitter Voltage	$V_{CEO}$	-60	V
Emitter-Base Voltage	$V_{EBO}$	-5	V
Collector Current	$I_C$	-500	mA
Emitter Current	$I_E$	500	mA
Collector Power Dissipation	$P_C$	625	mW
Junction Temperature	$T_j$	150	°C
Storage Temperature	$T_{stg}$	-55 ~ 150	°C



### ELECTRICAL CHARACTERISTICS (Ta=25°C)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	$I_{CBO}$	$V_{CB}=-60V, I_E=0$	-	-	-100	nA
Emitter Cut-off Current	$I_{CEO}$	$V_{CE}=-60V, I_B=0$	-	-	-100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=-5mA, I_B=0$	-60	-	-	V
DC Current Gain	$h_{FE(1)}$	$V_{CE}=-1V, I_C=-10mA$	100	-	-	
	$h_{FE(2)}$	$V_{CE}=-1V, I_C=-100mA$	100	-	-	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=-100mA, I_B=-10mA$	-	-	-0.25	V
Base-Emitter Voltage	$V_{BE}$	$V_{CE}=-1V, I_C=-100mA$	-	-	-1.2	V
Transition Frequency	$f_T$	$V_{CE}=-1V, I_C=-100mA$	50	-	-	MHz
Collector Output Capacitance	$C_{ob}$	$V_{CB}=-10V, I_E=0, f=1MHz$	-	14	-	pF