



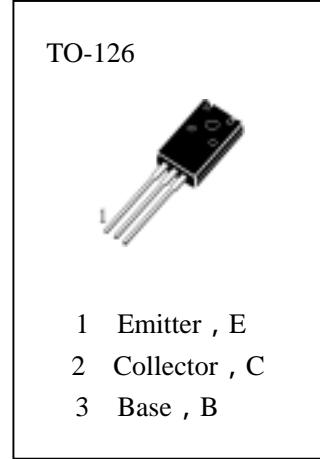
# HS882

## APPLICATIONS

Audio Frequency Power Amplifier , Switching Power Amplifier.

## ABSOLUTE MAXIMUM RATINGS ( $T_a=25$ )

- $T_{stg}$ —Storage Temperature..... -55~150
- $T_j$ —Junction Temperature..... 150
- $P_C$ —Collector Dissipation (  $T_c=25$  ) ..... 10W
- $P_C$ —Collector Dissipation (  $T_A=25$  ) ..... 1W
- $V_{CBO}$ —Collector-Base Voltage..... 40V
- $V_{CEO}$ —Collector-Emitter Voltage..... 30V
- $V_{EBO}$ —Emitter-Base Voltage..... 5V
- $I_C$ —Collector Current ( DC ) .....3A
- $I_b$ —Base Current ( DC ) .....0.6A



## Electrical Characteristics ( $T_a=25$ )

Symbol	Parameter	Min	Typ	Max	Unit	Test Conditions
$I_{CBO}$	Collector-Base Cutoff Current			1	$\mu A$	$V_{CB}=30V, I_E=0$
$I_{EBO}$	Emitter- Base Cutoff Current			1	$\mu A$	$V_{EB}=5V, I_C=0$
$h_{FE}$	DC Current Gain	60		400		$V_{CE}=2V, I_C=1A$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage		0.3	0.5	V	$I_C=2A, I_B=0.2A$
$V_{BE(sat)}$	Base -Emitter Saturation Voltage		1.0	2.0	V	$I_C=2A, I_B=0.2A$
$C_{ob}$	Output Capacitance		45		pF	$V_{CB}=10V, I_E=0, f=1MHz$
$f_T$	Current Gain-Bandwidth Product		90		MHz	$V_{CE}=5V, I_E=0.1A$

## $h_{FE}$ Classification

R	Q	P	E
60—120	100—200	160—320	200—400