

Applications

Audio Frequency Amplifier Applications

Features

- Complementary to 2SC1627.
- Suitable for driver of 20~25 watts audio amplifiers.

ABSOLUTE MAXIMUM RATINGS ($T_a=25^{\circ}\text{C}$)

T_{stg} —Storage Temperature..... $-55\sim 150^{\circ}\text{C}$

T_j —Junction Temperature..... 150°C

P_C —Collector Dissipation..... 600mW

V_{CBO} —Collector-Base Voltage..... -80V

V_{CEO} —Collector-Emitter Voltage..... -80V

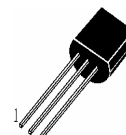
V_{EBO} —Emitter-Base Voltage..... -5V

I_C —Collector Current..... -300mA

I_b —Base Current..... -60mA

Package

TO-92



1—Emitter, E
2—Collector, C
3—Base, B

ELECTRICAL CHARACTERISTICS ($T_a=25^{\circ}\text{C}$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CEO}	Collector-Emitter Breakdown Voltage	-80			V	$I_C=-5\text{mA}$, $I_B=0$
$H_{\text{FE}}(1)$	DC Current Gain	70		240		$V_{\text{CE}}=-2\text{V}$, $I_C=-50\text{mA}$
$H_{\text{FE}}(2)$	DC Current Gain	40				$V_{\text{CE}}=-2\text{V}$, $I_C=-200\text{mA}$
$V_{\text{CE(sat)}}$	Collector- Emitter Saturation Voltage			-0.4	V	$I_C=-200\text{mA}$, $I_B=-20\text{mA}$
V_{BE}	Base-Emitter Voltage	-0.55		-0.8	V	$V_{\text{CE}}=-2\text{V}$, $I_C=-5\text{mA}$
I_{CBO}	Collector Cut-off Current			-100	nA	$V_{\text{CB}}=-50\text{V}$, $I_E=0$
I_{EBO}	Emitter Cut-off Current			-100	nA	$V_{\text{EB}}=-5\text{V}$, $I_C=0$
f_T	Current Gain-Bandwidth Product	70	100		MHz	$V_{\text{CE}}=-10\text{V}$, $I_C=-10\text{mA}$
C_{ob}	Output Capacitance		14		pF	$V_{\text{CB}}=-10\text{V}$, $I_E=0$, $f=1\text{MHz}$

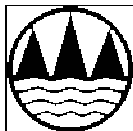
h_{FE} Classification

O

Y

70—140

120—240



PERFORMANCE CURVES

