



AUDIO FREQUENCY POWER AMPLIFIER

LOW SPEED SWITCHING

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

T_{stg} —Storage Temperature..... -55~150

T_j —Junction Temperature.....150

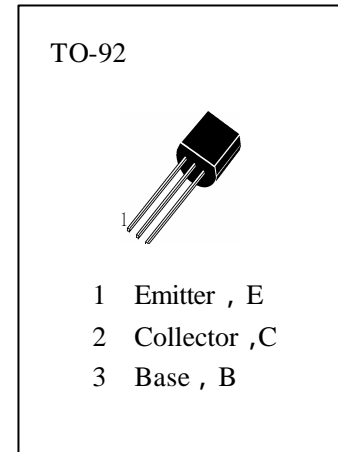
P_C —Collector Dissipation.....0.75W

V_{CBO} —Collector-Base Voltage.....40V

V_{CEO} —Collector-Emitter Voltage.....30V

V_{EBO} —Emitter-Base Voltage.....5V

I_C —Collector Current.....3A



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I_{CBO}	Collector Cut-off Current			100	nA	$V_{CB}=30V, I_E=0$
I_{EBO}	Emitter Cut-off Current			100	nA	$V_{EB}=3V, I_C=0$
h_{FE}	DC Current Gain	100		490		$V_{CE}=2V, I_C=1A$
$V_{CE(sat)}$	Collector Emitter Saturation Voltage			0.5	V	$I_C=2A, I_B=0.2A$
$V_{BE(sat)}$	Base-Emitter Saturation Voltage			2.0	V	$I_C=2A, I_B=0.2A$
f_T	Current Gain-Bandwidth Product		80		MHz	$V_{CE}=5V, I_C=0.1A$
C_{ob}	Output Capacitance		55		pF	$V_{CB}=10V, I_E=0, f=1MHz$

h_{FE} Classification

Q	P	E
100—200	160—320	260—490