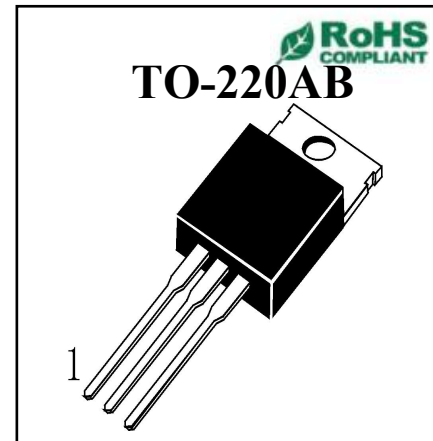


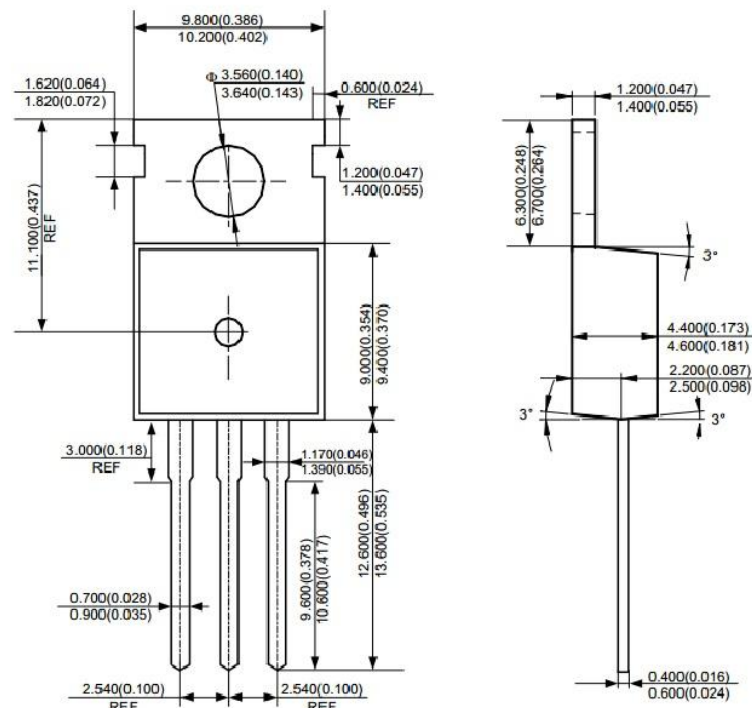
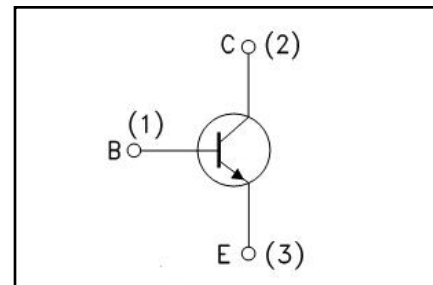
◆ Features:

- ✧ High efficiency, low deviation
高效率，低偏差
- ✧ Small input impedance, low consumption of power
输入阻抗小，功耗低
- ✧ Resistant of high temperature, high humidity
抗高温、高湿
- ✧ Good stability, reliability
稳定性好，可靠性高



◆ Applications

- ✧ Audio amplifier
音频放大器
- ✧ Switching applications
开关应用
- ✧ Complement to Type TIP42C(PNP)
与 TIP42C 互补应用
- ✧ Recommend for 100W high fidelity audio frequency amplifier output stage applications
推荐用于 65W 高保真音频放大器输出级应用



◆ Absolute Maximum Ratings (Tc=25°C)

Symbo l	Parameters	Ratings	Unit
VCBO	Collector-Base Voltage 集电极 - 基极电压	100	V
VCEO	Collector-Emitter Voltage 集电极 - 发射极电压	100	V
VEBO	Emitter-Base Voltage 发射极 - 基极电压	7	V
I _C	Collector Current-Continuous 集电极连续电流	6	A
I _B	Base Current-Continuous 基极连续电流	1	A
PC	Collector Power Dissipation 耗散功率	65	W
T _j	Max.Operating junction temperature 最大结温	150	°C
Tstg	Storage Temperature 存储温度	-65 ~ +150	°C

◆ Electrical characteristics ($T_c=25^{\circ}\text{C}$ unless otherwise noted)

Symbol	Parameters	Min	Typ	Max	Units	Conditions
I_{CBO}	Collector Cutoff Current 集电极截止电流	--	--	1	μA	$V_{CE}=100\text{V}$, $V_{EB}=0$
I_{EBO}	Emitter Cutoff Current 发射极截止电流	--	--	1.0	μA	$V_{BE}=10\text{V}$, $I_C=0$
BV_{CEO}	Collector Emitter Sustaining voltage(Note 1) 集电极发射极持续电压	100	--	--	V	$I_C=30\text{mA}$, $I_B=0$
$V_{CE(sat)}$	Collector Emitter Saturation Voltage(Note 1) 集电极发射极饱和电压	--	--	1.5	V	$I_C=4\text{A}$, $I_B=0.4\text{A}$
h_{FE}	DC Current Gain(Note 1) 直流电流增益	80	--	160		$I_C=1\text{A}$, $V_{CE}=5\text{V}$
f_T	Current-Gain—Bandwidth 电流增益带宽	10.0	--	--	MHz	$V_{CE}=10\text{V}$, $I_C=0.5\text{A}$, $f=1\text{MHz}$

Note 1: Pulse test: $PW \leq 300\mu\text{s}$, duty cycle $\leq 2\%$.