



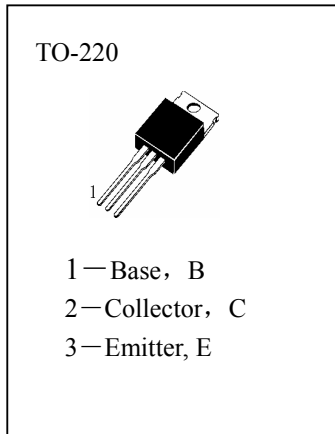
HD313

APPLICATIONS

Low Frequency Power Amplifier.

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

- T_{stg}—Storage Temperature..... -55~150°C
- T_j—Junction Temperature..... 150°C
- P_C—Collector Dissipation (T_c=25°C) 30W
- P_C—Collector Dissipation (T_A=25°C) 1.75W
- V_{CBO}—Collector-Base Voltage.....60V
- V_{CEO}—Collector-Emitter Voltage..... 60V
- V_{EBO}—Emitter-Base Voltage..... 5V
- I_C—Collector Current..... 3A



ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
ICEO	Collector Cut-off Current			5	mA	V _{CE} =60V, I _B =0
ICBO	Collector Cut-off Current			0.1	mA	V _{CB} =60V, I _E =0
IEBO	Emitter Cut-off Current			1	mA	V _{EB} =4V, I _C =0
HFE (1)	DC Current Gain	60		320		V _{CE} =2V, I _C =1A
HFE (2)	DC Current Gain	60				V _{CE} =2V, I _C =0.1A
V _{CE(sat)}	Collector- Emitter Saturation Voltage		0.4	1	V	I _C =2A, I _B =0.2A
V _{BE}	Base-Emitter Voltage			1.2	V	V _{CE} =2V, I _C =1A
f _t	Current Gain-Bandwidth Product		8		MHz	V _{CE} =5V, I _C =0.5A,
C _{ob}	Output Capacitance		65		pF	V _{CB} =10V, I _E =0, f=1MHz

hFE Classification

D	E	F
60—120	100—200	160—320