

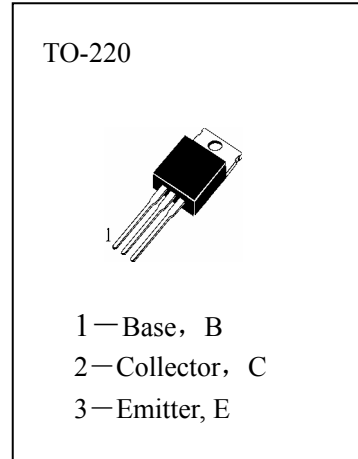
HBD241C

APPLICATIONS

Medium Power Linear And Switching Application.

ABSOLUTE MAXIMUM RATINGS (T_a=25°C)

- T_{stg}—Storage Temperature..... -65~150°C
- T_j—Junction Temperature..... 150°C
- P_C—Collector Dissipation (T_c=25°C) 40W
- V_{CER}—Collector-Emitter Voltage..... 115V
- V_{CEO}—Collector-Emitter Voltage..... 100V
- V_{EBO}—Emitter-Base Voltage..... 5V
- I_C—Collector Current (DC) 3A
- I_C—Collector Current (Pulse)5A
- I_B—Base Current.....1A



ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	100			V	I _C =30mA, I _B =0
I _{CEO}	Collector Cut-off Current			300	nA	V _{CE} =60V, I _B =0
I _{EBO}	Emitter-Base Cutoff Current			1	mA	V _{EB} =5V, I _C =0
I _{CS}	Collector Cutoff Current			200	μ A	V _{CE} =100V, V _{BE} =0
H _{FE} (1)	DC Current Gain	25				V _{CE} =4V, I _C =1A
H _{FE} (2)		10				V _{CE} =4V, I _C =3A
V _{CE(sat)}	Collector- Emitter Saturation Voltage			1.2	V	I _C =3A, I _B =0.6A
V _{BE(on)}	Base- Emitter On Voltage			1.8	V	V _{CE} =4V, I _C =3A,