



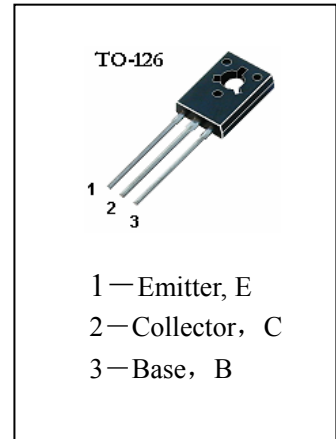
HSBD237

APPLICATIONS

Medium Power Linear switching Applications

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) 25W
- V_{CBO}—Collector-Base Voltage..... 100V
- V_{CEO}—Collector-Emitter Voltage..... 80V
- V_{CER}—Collector-Emitter Voltage..... 100V
- V_{EBO}—Emitter-Base Voltage..... 5V
- I_C—Collector Current (Pulse) 6A
- I_C—Collector Current (DC) 2A



ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I _{CBO}	Collector Cut-off Current			100	μ A	V _{CB} =100V, I _E =0
I _{EBO}	Emitter-Base Cut-off Current			1	mA	V _{EB} =5V, I _C =0
h _{FE(1)}	DC Current Gain	40				V _{CE} =2V, I _C =150mA
*h _{FE(2)}		25				V _{CE} =2V, I _C =1A
*V _{CE(sat)}	Collector-Emitter Saturation Voltage			0.6	V	I _C =1A, I _B =0.1A
*V _{BE(ON)}	Base-Emitter On Voltage			1.3	V	I _C =1A, V _{CE} =2V
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	80				I _C =100mA, I _B =0
f _T	Current Gain-Bandwidth Product	3			MHz	I _C =250mA, V _{CE} =10V

* Pulse Test:PW=350 μ S, Duty Cycle≤1.5% Pulsed