

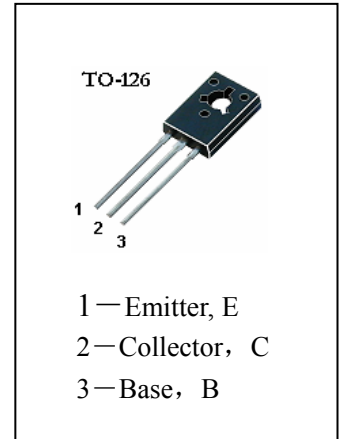


APPLICATIONS

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) 12.5W
- P_C—Collector Dissipation (T_A=25°C) 1.25W
- V_{CBO}—Collector-Base Voltage..... 45V
- V_{CEO}—Collector-Emitter Voltage..... 45V
- V_{EBO}—Emitter-Base Voltage..... 5V
- I_C—Collector Current (Pulse) 3A
- I_C—Collector Current (DC) 1.5A
- I_B—Base Current.....0.5A



ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I _{CBO}	Collector Cut-off Current			0.1	μ A	V _{CB} =30V, I _E =0
I _{EBO}	Emitter-Base Cut-off Current			10	μ A	V _{EB} =5V, I _C =0
h _{FE(1)}	DC Current Gain	25				V _{CE} =2V, I _C =5mA
h _{FE(2)}		25				V _{CE} =2V, I _C =0.5A
h _{FE(3)}		40		250		V _{CE} =2V, I _C =150mA
V _{CE(sat)}	Collector-Emitter Saturation Voltage			0.5	V	I _C =500mA, I _B =50mA
V _{BE(ON)}	Base-Emitter On Voltage			1.0	V	I _C =0.5A, V _{CE} =2V
V _{CEO(SUS)}	Collector-Emitter Sustaining Voltage	45				I _C =30mA, I _B =0

h_{FE(3)} Classification

Classification	6	10	16
h _{FE(3)}	40~100	63~160	100~250