



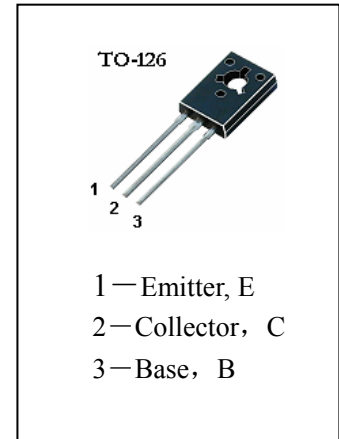
HSBD436

■ 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)	36W
V _{CBO}	Collector-Base Voltage	-32V
V _{CEO}	Collector-Emitter Voltage	-32V
V _{CES}	Collector-Emitter Voltage	-32V
V _{EBO}	Emitter-Base Voltage	-5V
I _C	Collector Current (Pulse)	-7A
I _C	Collector Current (DC)	-4A
I _B	Base Current	-1A



■ ELECTRICAL CHARACTERISTICS (T_a=25°C)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
ICBO	Collector Cut-off Current			-100	μ A	V _{CB} =-32V, I _E =0
IEBO	Emitter Cut-off Current			-1	mA	V _{EB} =-5V, I _C =0
*H _{FE} (1)	DC Current Gain	40	140			V _{CE} =-5V, I _C =-10mA
*H _{FE} (2)	DC Current Gain	85	140			V _{CE} =-1V, I _C =-500mA
*H _{FE} (3)	DC Current Gain	50				V _{CE} =-1V, I _C =-2A
*V _{CE(sat)}	Collector- Emitter Saturation Voltage		-0.2	-0.5	V	I _C =-2A, I _B =-0.2A
*V _{BE(on)}	Base-Emitter On Voltage			-1.1	V	V _{CE} =-1V, I _C =-2A
V _{CEO(sus)}	Collector-Emitter Sustaining Voltage	-32			V	I _C =-100mA, I _B =0
f _t	Current Gain-Bandwidth Product	3			MHZ	V _{CE} =-1V, I _C =-250mA,

* Pulse Test:PW=300 μ S, Duty Cycle=1.5% Pulsed