

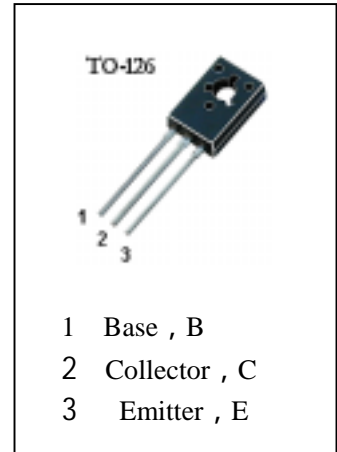


HIGH VOLTAGE SWITCH MODE APPLICATIONS

High Speed Switching
Suitable for Switching Regulator and Montor Control

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

- T_{stg} —Storage Temperature..... -55~150
- T_j —Junction Temperature..... 150
- P_C —Collector Dissipation..... 10W
- V_{CBO} —Collector-Base Voltage..... 600V
- V_{CEO} —Collector-Emitter Voltage..... 400V
- V_{EBO} —Emitter-Base Voltage..... 9V
- I_C —Collector Current..... 0.25A



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CBO}	Collector-Base Breakdown Voltage	600			V	$I_C=1mA, I_E=0$
BV_{CEO}	Collector-Emitter Breakdown Voltage	400			V	$I_C=10mA, I_B=0$
BV_{EBO}	Emitter-Base Breakdown Voltage	9			V	$I_E=1mA, I_C=0$
I_{CBO}	Collector Cut-off Current			100	μA	$V_{CB}=500V, I_E=0$
I_{EBO}	Emitter-Base Cut-off Current			100	μA	$V_{EB}=9V, I_C=0$
h_{FE}	DC Current Gain	10		40		$V_{CE}=10V, I_C=20mA$
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			0.6	V	$I_C=100mA, I_B=20mA$
$V_{BE(sat)}$	Base-Emitter Saturation Voltage			1.2	V	$I_C=100mA, I_B=20mA$
f_T	Current Gain-Bandwidth Product	8			MHZ	$V_{CE}=10V, I_C=20mA$

h_{FE} Classification

H1	H2	H3	H4	H5
10-16	14-21	19-26	24-31	29-40