

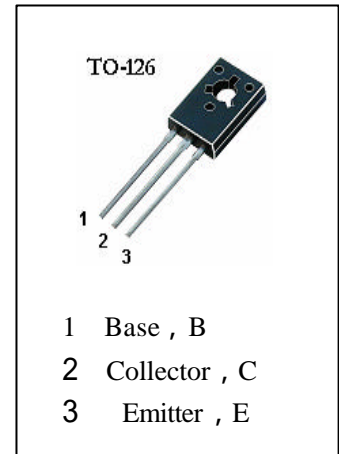


HIGH VOLTAGE SWITCH MODE APPLICICATIONS

High Speed Switching. Suitable for Switching Regulator and Montor Control

ABSOLUTE MAXIMUM RATINGS ($T_a=25$)

- T_{stg} ——Storage Temperature..... -65~150
- T_j ——Junction Temperature.....150
- P_C ——Collector Dissipation.....40W
- V_{CBO} ——Collector-Base Voltage.....700V
- V_{CEO} ——Collector-Emitter Voltage.....400V
- V_{EBO} ——Emitter-Base Voltage.....9V
- I_c ——Collector Current.....1.5A
- I_B ——Base Curren.....0.75A



ELECTRICAL CHARACTERISTICS ($T_a=25$)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CEO}	Collector-Emitter Breakdown Voltage	400			V	$I_C=5mA, I_B=0$
I_{EBO}	Emitter-Base Cut-off Current			10	μA	$V_{EB}=9V, I_C=0$
$HFE1$	DC Current Gain	10		40		$V_{CE}=5V, I_C=0.5A$
$HFE2$	DC Current Gain	5				$V_{CE}=2V, I_C=1A$
$V_{CE(sat)1}$	Collector- Emitter Saturation Voltage			0.5	V	$I_C=0.5A, I_B=0.1A$
$V_{CE(sat)2}$	Collector- Emitter Saturation Voltage			1	V	$I_C=1A, I_B=0.25A$
$V_{CE(sat)3}$	Collector- Emitter Saturation Voltage			3	V	$I_C=1.5A, I_B=0.5A$
$V_{BE(sat)1}$	Base-Emitter Saturation Voltage			1	V	$I_C=0.5A, I_B=0.1A$
$V_{BE(sat)2}$	Base-Emitter Saturation Voltage			1.2	V	$I_C=1A, I_B=0.25A$
f_T	Current Gain-Bandwidth Product	4			MHz	$V_{CE}=10V, I_C=0.1A$
t_{ON}	Turn On Time			1.1	μs	$V_{CC}=125V, I_C=1A,$ $I_{B1}=0.2A, I_{B2}=-0.2A$ $R_L=125$
t_{STG}	Storage Time			4.0	μs	
t_F	Fall Time			0.7	μs	

h_{FE} Classification

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

