



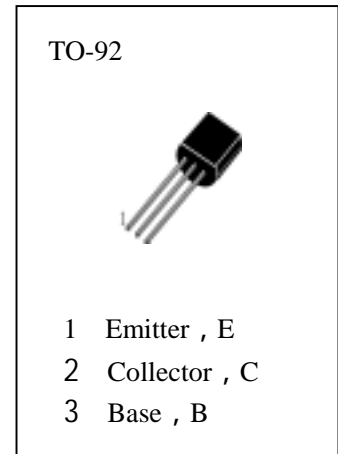
HIGH VOLTAGE SWITCH MODE APPLICATIONS

High Speed Switching

Suitable for Switching Regulator and Montor Control

ABSOLUTE MAXIMUM RATINGS ( Ta=25 )

- T<sub>stg</sub>——Storage Temperature..... -55~150
- T<sub>j</sub>——Junction Temperature.....150
- P<sub>C</sub>——Collector Dissipation.....900mW
- V<sub>CBO</sub>——Collector-Base Voltage.....600V
- V<sub>CEO</sub>——Collector-Emitter Voltage.....400V
- V<sub>EBO</sub>——Emitter-Base Voltage.....9V
- I<sub>C</sub>——Collector Current.....0.25A



ELECTRICAL CHARACTERISTICS ( Ta=25 )

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BVCBO	Collector-Base Breakdown Voltage	600			V	I <sub>C</sub> =1mA, I <sub>E</sub> =0
BVCEO	Collector-Emitter Breakdown Voltage	400			V	I <sub>C</sub> =10mA, I <sub>B</sub> =0
BVEBO	Emitter-Base Breakdown Voltage	9			V	I <sub>E</sub> =1mA , I <sub>C</sub> =0
ICBO	Collector Cut-off Current			100	μ A	V <sub>CB</sub> =500V, I <sub>E</sub> =0
IEBO	Emitter-Base Cut-off Current			100	μ A	V <sub>EB</sub> =9V, I <sub>C</sub> =0
HFE	DC Current Gain	8		70		V <sub>CE</sub> =10V, I <sub>C</sub> =20mA
V <sub>CE(sat)</sub>	Collector- Emitter Saturation Voltage			0.6	V	I <sub>C</sub> =100mA, I <sub>B</sub> =20mA
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage			1.2	V	I <sub>C</sub> =100mA, I <sub>B</sub> =20mA
f <sub>T</sub>	Current Gain-Bandwidth Product	8			MHZ	V <sub>CE</sub> =10V, I <sub>C</sub> =20mA