

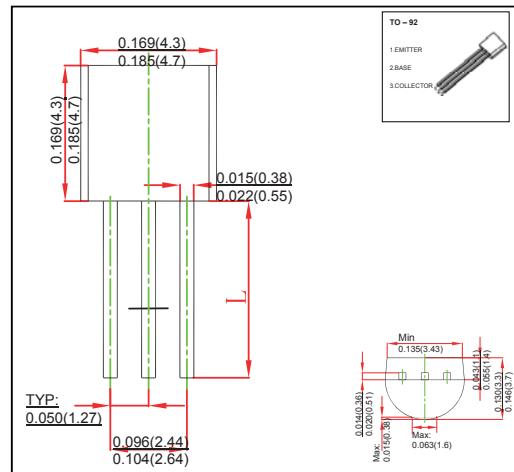
TO-92 Plastic-Encapsulate Transistors

FEATURES

- Switching and amplification in high voltage
- Applications such as telephony
- Low current
- High voltage
- NPN Transistors

MECHANICAL DATA

- Case style: TO-92 molded plastic
- Mounting position: any



MAXIMUM RATINGS AND CHARACTERISTICS

@ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Rating	Unit
Collector - Base Voltage	V _{CBO}	60	V
Collector - Emitter Voltage	V _{CEO}	40	V
Emitter - Base Voltage	V _{EBO}	6	V
Collector Current - Continuous	I _C	0.2	A
Collector Power Dissipation	P _C	0.625	W
Junction Temperature	T _J	150	°C
Storage Temperature	T _{stg}	- 55 t o 1 50	°C

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collecto- base breakdown voltage	V _{CBO}	I _C = 100µA, I _E =0	60			V
Collector- emitter breakdown voltage	V _{CEO}	I _C = 1 mA , I _B =0	40			V
Emitter - base breakdown voltage	V _{EBO}	I _E =10uA, I _C =0	6			V
Collector cut-off current	I _{cBO}	V _{CB} = 6 0 V , I _E =0			0.1	µ A
Collector cut-off current	I _{cEO}	V _{CE} = 4 0 V , I _B =0			0.1	µ A
Emitter cut-off current	I _{eBO}	V _{EB} = 5 V , I _C =0			0.1	µ A
DC current gain	H _{FE}	V _{CE} = 1 V , I _C = 10mA	100		300	
		V _{CE} = 1 V , I _C = 50mA	60			
		V _{CE} = 1 V , I _C = 100mA	30			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =50 mA, I _B = 5 m A			0.3	V
Base - emitter saturation voltage	V _{BE(sat)}	I _C = 5 0 m A , I _B = 5mA			0.95	V
Delay time	t _d	V _{CC} =3.0V,V _{BE} =-0.5V I _C =10mA,I _{B1} =-I _{B2} =1.0mA			35	ns
Rise time	t _r				35	
Storage time	t _s	V _{CC} =3.0V,IC=10mA I _{B1} =-I _{B2} =1.0mA			200	ns
Fall time	t _f				50	
Transition frequency	f _T	V _{CE} = 20V, I _C = 10mA,f=100MHz	300			MHz