

Descriptions

- High voltage application
- Monitor equipment application

Features

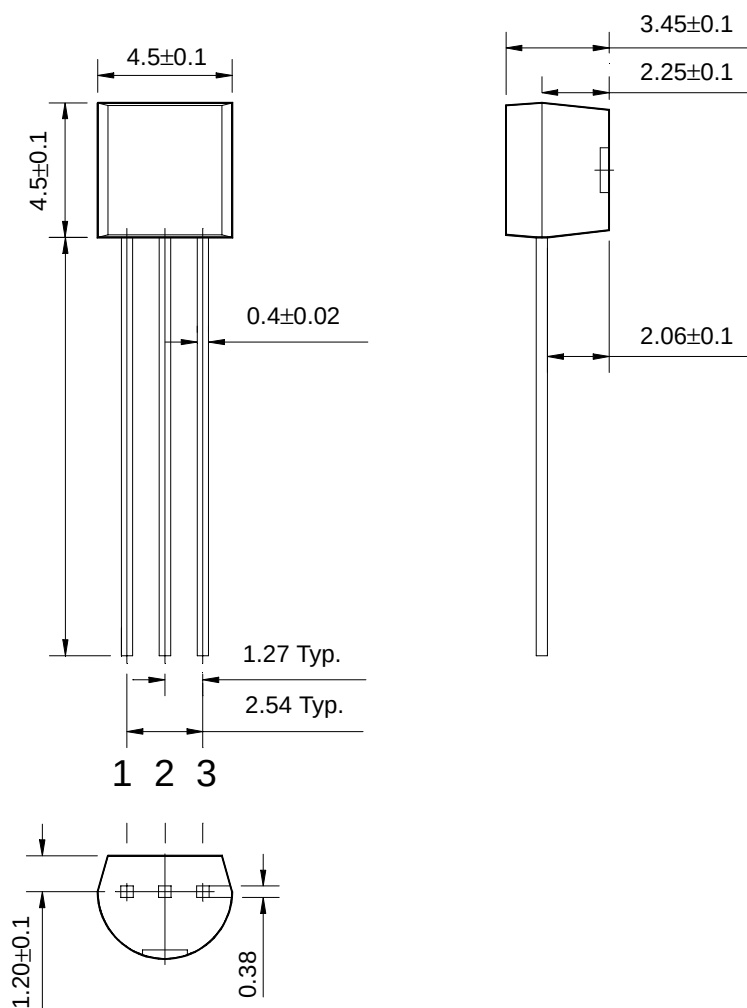
- Collector-Emitter voltage : $V_{CEO} = 250V$
- Complementary pair with BF423

Ordering Information

Type NO.	Marking	Package Code
BF422	BF422	TO-92

Outline Dimensions

unit : mm



PIN Connections

1. Emitter
2. Collector
3. Base

Absolute maximum ratings

Characteristic	Symbol	Ratings	Unit
Collector-Base voltage	V_{CBO}	250	V
Collector-Emitter voltage	V_{CEO}	250	V
Emitter-base	V_{EBO}	5	V
Collector current	I_C	100	mA
Collector dissipation	P_C	625	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ 150	°C

Electrical Characteristics

Characteristic	Symbol	Test Condition	Min.	Typ.	Max.	Unit
Collector-Emitter breakdown voltage	BV_{CEO}	$I_C = 1\text{mA}$, $I_B = 0$	250	-	-	V
Collector cut-off current	I_{CBO}	$V_{CB} = 200\text{V}$, $I_E = 0$	-	-	100	nA
Emitter cut-off current	I_{EBO}	$V_{EB} = 5\text{V}$, $I_C = 0$	-	-	100	nA
DC current gain	h_{FE}	$V_{CE} = 20\text{V}$, $I_C = 25\text{mA}$	50	-	-	-
Collector-Emitter saturation voltage	$V_{CE(sat)}$	$I_C = 30\text{mA}$, $I_B = 5\text{mA}$	-	-	0.6	V
Transistor frequency	f_T	$V_{CE} = 20\text{V}$, $I_C = 10\text{mA}$, $f = 100\text{MHz}$	-	100	-	MHz
Collector output capacitance	C_{ob}	$V_{CB} = 20\text{V}$, $I_E = 0$, $f = 1\text{MHz}$	-	1	-	pF