

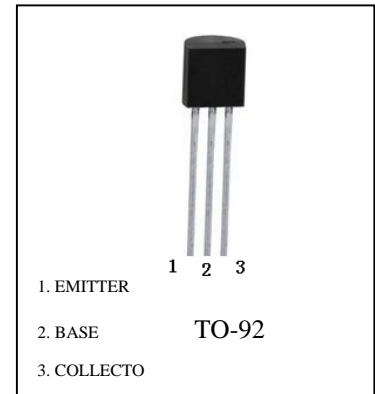
FEATURES

High voltage

MARKING:A44

MAXIMUM RATINGS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V_{CBO}	400	V
Collector-Emitter Voltage	V_{CEO}	400	V
Emitter-Base Voltage	V_{EBO}	5	V
Collector Current -Continuous	I_C	200	mA
Collector Power Dissipation	P_C	625	mW
Junction Temperature	T_J	150	°C
Storage Temperature	T_{stg}	-55-150	°C

A44 (NPN)


ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C=100\mu A, I_E=0$	400			V
Collector-emitter breakdown voltage	V_{CEO}	$I_C=1mA, I_B=0$	400			V
Emitter-base breakdown voltage	V_{EBO}	$I_E=100\mu A, I_C=0$	5			V
Collector cut-off current	I_{CBO}	$V_{CB}=400V, I_E=0$			0.1	μA
Collector cut-off current	I_{CEO}	$V_{CE}=400V$			5	μA
Emitter cut-off current	I_{EBO}	$V_{EB}=4V, I_C=0$			0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE}=10V, I_C=10mA$	80		300	
	$h_{FE(2)}$	$V_{CE}=10V, I_C=1mA$	70			
	$h_{FE(3)}$	$V_{CE}=10V, I_C=100mA$	40			
	$h_{FE(4)}$	$V_{CE}=10V, I_C=50mA$	80			
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C=10mA, I_B=1mA$			0.2	V
	$V_{CE(sat)}$	$I_C=50mA, I_B=5mA$			0.3	V
Base-emitter sataration voltage	$V_{BE(sat)}$	$I_C=10mA, I_B=1mA$			0.75	V
Transition frequency	f_T	$V_{CE}=20V, I_C=10mA, f=30MHz$	50			MHz

CLASSIFICATION OF HFE

Rank	A	B	B	C
Range	80-10	100-15	150-20	200-30

A44 Typical Characteristics

