



SOT-23 Plastic-Encapsulate Transistors

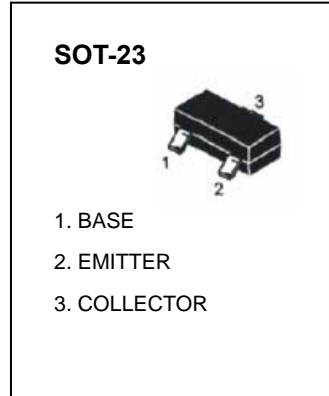
C1815 TRANSISTOR (NPN)

FEATURES

Power dissipation

MARKING : C1815=HF

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



Symbol Para	meter	Value	Units
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-50	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _c	Collector Current -Continuous	150	mA
P _C	Collector Power Dissipation	200	mW
T _j	Junction Temperature	125	°C
T _{stg}	Storage Temperature	-55-125	°C

ELECTRICAL CHARACTERISTICS (T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _C = 100uA, I _E =0	60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C = 0.1mA, I _B =0	50			V
Collector cut-off current	I _{CBO}	V _{CB} =60 V, I _E =0			0.1	A
Collector cut-off current	I _{CEO}	V _{CE} =50 V, I _B =0			0.1	uA
Emitter cut-off current	I _{EBO}	V _{EB} = 5V, I _C =0			0.1	uA
DC current gain	h _{FE}	V _{CE} = 6V, I _C = 2mA	130		400	
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =100 mA, I _B = 10mA			0.25	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =100 mA, I _B = 10mA			1	V
Transition frequency	f _T	V _{CE} =10V, I _C = 1mA f=30MHz	80			MHz

CLASSIFICATION OF h_{FE}

Rank	L	H
Range	130-200	200-400

Typical Characteristics

C1815

