

TRANSISTOR (NPN)

FEATURES

Power dissipation

MARKING: 2SC1815=HF



MAXIMUM RATINGS (T_A=25℃ unless otherwise noted)

Symbol	Parameter	Value	Units	
V _{CBO}	Collector-Base Voltage	60	V	
V _{CEO}	Collector-Emitter Voltage	50	V	
V _{EBO}	Emitter-Base Voltage	5	V	
Ic	Collector Current -Continuous	150	mA	
Pc	Collector Power Dissipation	200	mW	
T _j	Junction Temperature	150	°C	
T _{stg}	Storage Temperature	-55-150	℃	

ELECTRICAL CHARACTERISTICS (Tamb=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} =60V, I _E =0			0.1	uA
Collector cut-off current	I _{CEO}	V _{CE} =50V, 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 =100mA, I _B = 10mA			0.25	V
Base-emitter saturation voltage	V _{BE} (sat)	I _C =100mA, I _B = 10mA			1	V
Transition frequency	f⊤	V _{CE} =10V, I _C = 1mA, f=30MHz	80			MHz

CLASSIFICATION OF hFE

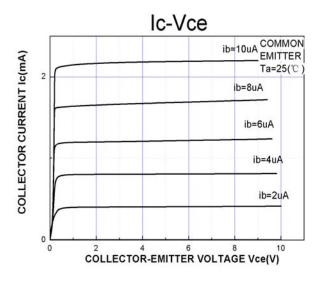
Rank	L	Н
Range	130-200	200-400

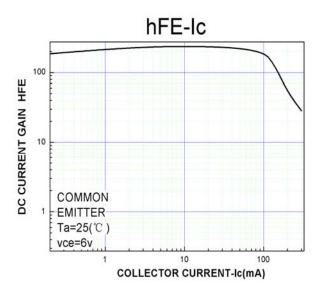
JinYu semiconductor

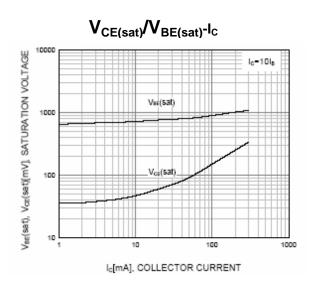
LEAD FREE CHTTICATION ISO9001: ISO14001 SGS

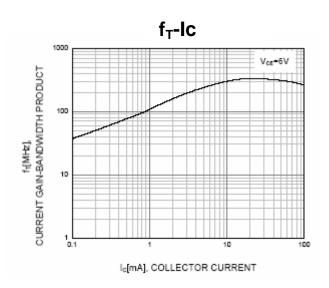


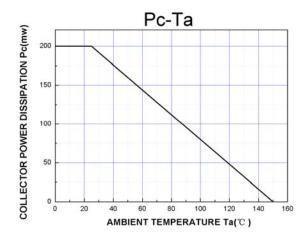
Typical Characteristics











semiconductor