Shantou Huashan Electronic Devices Co.,Ltd.

NPN SILICON TRANSISTOR

H1815

AUDIO FREQUENCY AMPLIFIER

HIGH FREQUENCY OSC

TO-92

1—Emitter，E
2—Collector，C
3—Base，B

ABSOLUTE MAXIMUM RATINGS（T_a=25℃）

T_{stg}——Storage Temperature····· -55~150℃

T_j——Junction Temperature·····150℃

P_C——Collector Dissipation·····400mW

V_{CBO}——Collector-Base Voltage·····60V

V_{CEO}——Collector-Emitter Voltage·····50V

V_{EBO}——Emitter-Base Voltage·····5V

I_C——Collector Current·····150mA

ELECTRICAL CHARACTERISTICS（T_a=25℃）

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
I_{CBO}	Collector Cut-off Current			100	nA	V_{CB}=60V, I_E=0
I_{EBO}	Emitter Cut-off Current			100	nA	V_{EB}=5V, I_C=0
$H_{FE(1)}$	DC Current Gain	70		700		V_{CE}=6V, I_C=2mA
$H_{FE(2)}$		25				V_{CE}=6V, I_C=150mA
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			250	mV	I_C=100mA, I_B=10mA
$V_{BE(sat)}$	Base-Emitter Saturation Voltage			1.0	V	I_C=100mA, I_B=10mA
BV_{CBO}	Collector-Base Breakdown Voltage	60			V	I_C=100μA, I_E=0
BV_{CEO}	Collector-Emitter Breakdown Voltage	50			V	I_C=1mA, I_B=0
BV_{EBO}	Emitter-Base Breakdown Voltage	5			V	I_E=100μA，I_C=0
f_T	Current Gain-Bandwidth Product	80			MHz	V_{CE}=10V, I_C=1mA

h_{FE} Classification

O	Y	GR	BL
70—140	120—240	200—400	350—700