Shantou Huashan Electronic Devices Co.,Ltd.

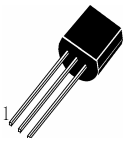
NPN SILICON TRANSISTOR

H420

APPLICATIONS

Class-B video output stages in colour television and professional monitor equipment

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·····800mW

V_{CBO}——Collector-Base Voltage·····300V

V_{CEO}——Collector-Emitter Voltage·····300V

V_{EBO}——Emitter-Base Voltage·····5V

I_C——Collector Current·····50mA

ELECTRICAL CHARACTERISTICS (T_a=25℃)

Symbol	Characteristics	Min	Typ	Max	Unit	Test Conditions
BV_{CBO}	Collector-Base Breakdown Voltage	300			V	I_C=100μA, I_E=0
BV_{CER}	Collector-Emitter Breakdown Voltage	300			V	I_C=1mA, R_{BE}=2.7KΩ
H_{FE}	DC Current Gain	50				V_{CE}=20V, I_C=25mA
$V_{CE(sat)}$	Collector- Emitter Saturation Voltage			0.6	V	I_C=30mA, I_B=5mA
I_{CBO}	Collector Cut-off Current			10	nA	V_{CB}=200V, I_E=0
I_{EBO}	Emitter Cut-off Current			10	μA	V_{EB}=5V, I_C=0
Crb	feedback Capacitance			1.6	pF	V_{CE}=30V, I_C=0, f=1MHz
f_T	Current Gain-Bandwidth Product	60			MHz	V_{CE}=10V, I_C=10mA