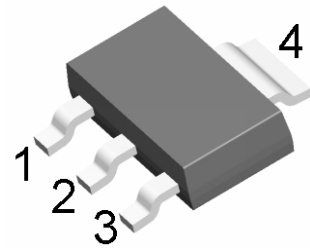


PNP General Purpose Purpose Amplifier PNP 中功率放大三极管 **FHBCP52**

DESCRIPTION & FEATURES 概述及特点

General purpose medium power amplifiers
 Switching circuits requiring collector currents to 1.0A

SOT-223



PIN ASSIGNMENT 引脚说明

PIN NAME 管脚符号	PIN NUMBER 引脚序号	FUNCTION 功能
	SOT-223	
B	1	Base
C	2	Collect
E	3	Emitter
C	4	Collect

MAXIMUM RATINGS(T_a=25°C) 最大额定值

CHARACTERISTIC 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Collector-Emitter Voltage 集电极-发射极电压	V _{CEO}	60	Vdc
Collector-Base Voltage 集电极-基极电压	V _{CBO}	60	Vdc
Emitter-Base Voltage 发射极-基极电压	V _{EBO}	5.0	Vdc
Collector Current-Continuous 集电极电流-连续	I _C	1.2	Adc

THERMAL CHARACTERISTICS 热特性

CHARACTERISTIC 特性参数	Symbol 符号	Max 最大值	Unit 单位
Total Device Dissipation 总功耗	P _D	1.5	W
Junction and Storage Temperature 结温和储存温度	T _J T _{stg}	150 , -55 ~150	°C

DEVICE MARKING 打标

FHBCP52=BCP52(40~250)

ELECTRICAL CHARACTERISTICS 电特性

(T_A=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

Characteristic 特性参数	Symbol 符号	Test Condition 测试条件	Min 最小值	Type 典型值	Max 最大值	Unit 单位
Collector-Emitter Breakdown Voltage 集电极-发射极击穿电压	V _{(BR)CEO}	I _C =10mA, I _B =0	60	—	—	V
Collector-Base Breakdown Voltage 集电极-基极击穿电压	V _{(BR)CBO}	I _C =100μA, I _E =0	60	—	—	V
Emitter-Base Breakdown Voltage 发射极-基极击穿电压	V _{(BR)EBO}	I _E =10μA, I _C =0	5.0	—	—	V
Collector Cutoff Current 集电极截止电流	I _{CBO}	V _{CB} =30V, I _E =0	—	—	100	nA
Emitter Cutoff Current 发射极截止电流	I _{EBO}	V _{EB} =5V, I _C =0	—	—	10	uA
DC Current Gain 直流电流增益	h _{FE}	I _C =5.0mA, V _{CE} =-2V,	25	—	—	
	h _{FE}	I _C =150mA, V _{CE} =-2V,	40	—	250	
	h _{FE}	I _C =500mA, V _{CE} =-2V,	25	—		
Collector-Emitter Saturation Voltage 集电极-发射极饱和压降	V _{CE(sat)}	I _C =500mA, I _B =50mA	—	—	0.5	V
Base-Emitter on Voltage 基极-发射极电压	V _{BE}	I _C =500mA, V _{CE} =2.0V,	—	—	1	V