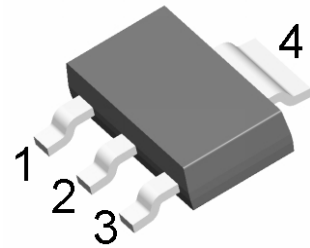


PNP General Purpose Purpose Amplifier PNP 中功率放大三极管 **FHBCP52**

**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<sub>a</sub>=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 <sub>CEO</sub>	60	Vdc
Collector-Base Voltage 集电极-基极电压	V <sub>CBO</sub>	60	Vdc
Emitter-Base Voltage 发射极-基极电压	V <sub>EBO</sub>	5.0	Vdc
Collector Current-Continuous 集电极电流-连续	I <sub>C</sub>	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 总耗散功率	P <sub>D</sub>	1.5	W
Junction and Storage Temperature 结温和储存温度	T <sub>J</sub> T <sub>stg</sub>	150 , -55 ~150	°C

**DEVICE MARKING 打标**

**FHBCP52=BCP52(40~250)**

**ELECTRICAL CHARACTERISTICS 电特性**

(T<sub>A</sub>=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 <sub>(BR)CEO</sub>	I <sub>C</sub> =10mA, I <sub>B</sub> =0	60	—	—	V
Collector-Base Breakdown Voltage 集电极-基极击穿电压	V <sub>(BR)CBO</sub>	I <sub>C</sub> =100μA, I <sub>E</sub> =0	60	—	—	V
Emitter-Base Breakdown Voltage 发射极-基极击穿电压	V <sub>(BR)EBO</sub>	I <sub>E</sub> =10μA, I <sub>C</sub> =0	5.0	—	—	V
Collector Cutoff Current 集电极截止电流	I <sub>CBO</sub>	V <sub>CB</sub> =30V, I <sub>E</sub> =0	—	—	100	nA
Emitter Cutoff Current 发射极截止电流	I <sub>EBO</sub>	V <sub>EB</sub> =5V, I <sub>C</sub> =0	—	—	10	uA
DC Current Gain 直流电流增益	h <sub>FE</sub>	I <sub>C</sub> =5.0mA, V <sub>CE</sub> =-2V,	25	—	—	
	h <sub>FE</sub>	I <sub>C</sub> =150mA, V <sub>CE</sub> =-2V,	40	—	250	
	h <sub>FE</sub>	I <sub>C</sub> =500mA, V <sub>CE</sub> =-2V,	25	—		
Collector-Emitter Saturation Voltage 集电极-发射极饱和压降	V <sub>CE(sat)</sub>	I <sub>C</sub> =500mA, I <sub>B</sub> =50mA	—	—	0.5	V
Base-Emitter on Voltage 基极-发射极电压	V <sub>BE</sub>	I <sub>C</sub> =500mA, V <sub>CE</sub> =2.0V,	—	—	1	V