



**Low Frequency Power Amplifier Transistors 低频功率放大三极管**

**NPN Silicon (FHT8050)**

**FEATURES 特点**

- Low Frequency Power Amplifier 低频功率放大
- Suitable for Driver Stage of Small Motor 小马达驱动
- Complementary to FHTA8550 与 FHTA8550 互补

**MAXIMUM RATINGS(T<sub>a</sub>=25 ) 最大额定值**

CHARACTERISTIC 特性参数	Symbol 符号	Rating 额定值	Unit 单位
Collector-Base Voltage 集电极-基极电压	V <sub>CBO</sub>	40	Vdc
Collector-Emitter Voltage 集电极-发射极电压	V <sub>CEO</sub>	25	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>	800	mAdc
Base Current 基极电流	I <sub>B</sub>	160	mAdc
Collector Power Dissipation 集电极耗散功率	P <sub>C</sub>	300	mW
Junction Temperature 结温	T <sub>j</sub>	150	
Storage Temperature Range 储存温度	T <sub>stg</sub>	-55 ~ 150	

**DEVICE MARKING 打标**

**h<sub>FE</sub>(1) FHT8050O=7O(85 ~ 200),FHT8050Y=7Y(160 ~ 300),FHT8050G=7G(280~360)**

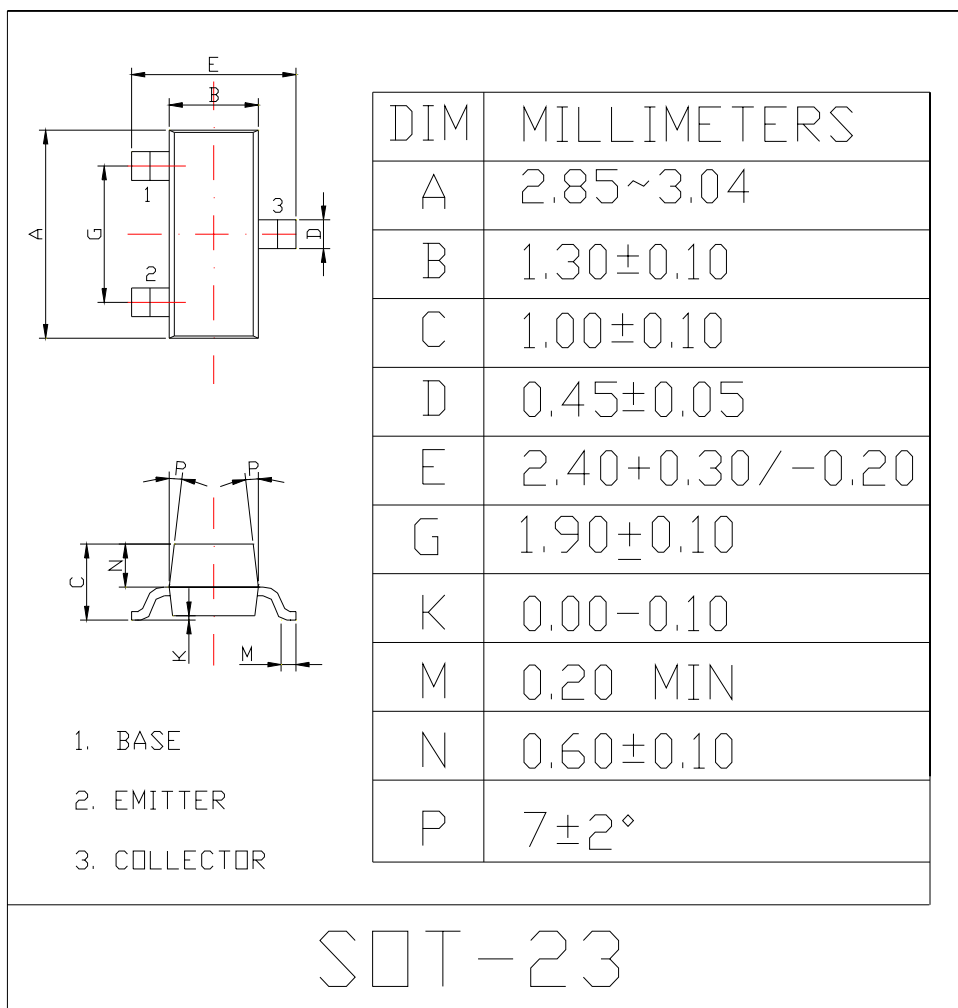
**ELECTRICAL CHARACTERISTICS 电特性**

**(T<sub>A</sub>=25 unless otherwise noted 如无特殊说明, 温度为 25 )**

Characteristic 特性参数	Symbol 符号	Test Condition 测试条件	Min 最小值	TYP 典型	Max 最大值	Unit 单位
Collector Cutoff Current 集电极截止电流	I <sub>CBO</sub>	V <sub>CB</sub> =30V,I <sub>E</sub> =0	—	—	0.1	μA
Emitter Cutoff Current 发射极截止电流	I <sub>EBO</sub>	V <sub>EB</sub> =5V,I <sub>C</sub> =0	—	—	0.1	μA
Collector-Base Breakdown Voltage 集电极-基极击穿电压	V <sub>(BR)CBO</sub>	I <sub>C</sub> =100μA	40	—	—	V
Collector-Emitter Breakdown Voltage 集电极-发射极击穿电压	V <sub>(BR)CEO</sub>	I <sub>C</sub> =10mA	25	—	—	V
Emitter-Base Breakdown Voltage 发射极-基极击穿电压	V <sub>(BR)EBO</sub>	I <sub>E</sub> =100μA	5	—	—	V
DC Current Gain 直流电流增益	h <sub>FE</sub> (1)	V <sub>CE</sub> =1V,I <sub>C</sub> =100mA	85	—	360	—
	h <sub>FE</sub> (2)	V <sub>CE</sub> =1V,I <sub>C</sub> =800mA	40	—	—	—
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	—	—	0.6	V
Base-Emitter Voltage 基极-发射极电压	V <sub>BE</sub>	V <sub>CE</sub> =1V,I <sub>C</sub> =10mA	—	0.8	1.0	V
Transition Frequency 特征频率	f <sub>T</sub>	V <sub>CE</sub> =5V,I <sub>C</sub> =10mA	100	120	—	MHz
Collector Output Capacitance 输出电容	C <sub>ob</sub>	V <sub>CB</sub> =10V,I <sub>E</sub> =0,f=1MHz	—	13	30	pF



## SOT-23 封装外形尺寸 (SOT-23 DIMENSION)



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