

描述 DESCRIPTIONS

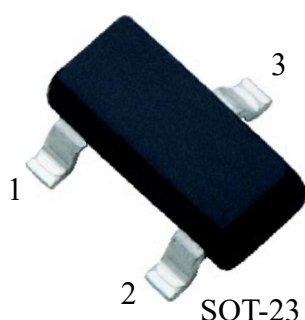
SOT-23 塑封封装 PNP 三极管。PNP transistor in SOT-23 Plastic Package.

与 FHS3904 互补。Complementary to FHS3904

应用 APPLICATIONS

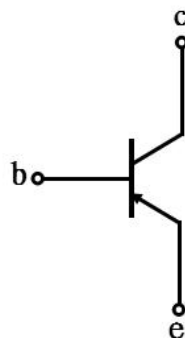
常规应用、开关电路。General purpose application,switching.

引脚说明 PIN ASSIGNMENT



- 1 BASE
- 2 EMITTER
- 3 COLLECTOR

内部等效电路 Equivalent Circuit



型号构成 Name rule

基本名称 Name			辅助识别代码 Additional code			
第一部分 Part 1	第二部分 Part 2	第三部分 Part 3	第四部分 Part 4	第五部分 Part 5	第六部分 Part 6	第七部分 Part 7
品牌 Brand	产品类别 Type	产品型号 Model	分档 Value	分隔号 Separatrix	封装代码 Package	附加码 (备用) Extra-code
FH	S: 开关三极管	3906		“—”	M: SOT-23	E: ROHS

■ **额定值 ABSOLUTE MAXIMUM RATINGS** (TC=25°C unless otherwise noted)

特性参数 CHARACTERISTIC	符号 SYMBOL	额定值 RATING	单位 UNIT
集电极-基极电压 Collector-Base Voltage	V_{CBO}	-40	V
集电极-发射极电压 Collector-Emitter Voltage	V_{CEO}	-40	V
发射极-基极电压 Emitter-Base Voltage	V_{EBO}	-5	V
集电极电流 Collector Current	I_C	-200	mA
集电极电流-峰值 Collector Current - Peak	I_{CM}	-800	mA
集电极耗散功率 Collector Power Dissipation	P_C	225	mW
结温 Junction Temperature	T_j	150	°C
储存温度 Storage Temperature	T_{stg}	- 55~150	°C

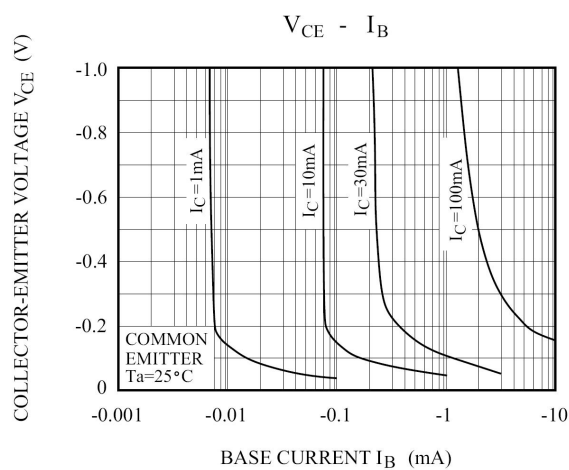
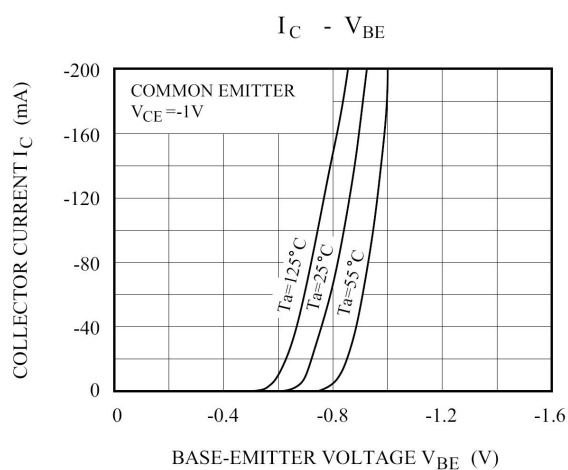
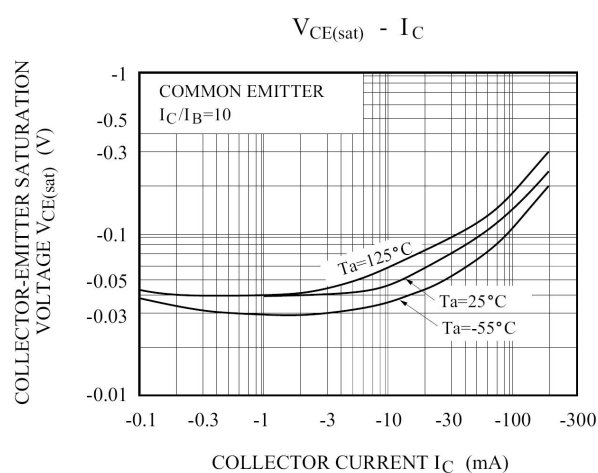
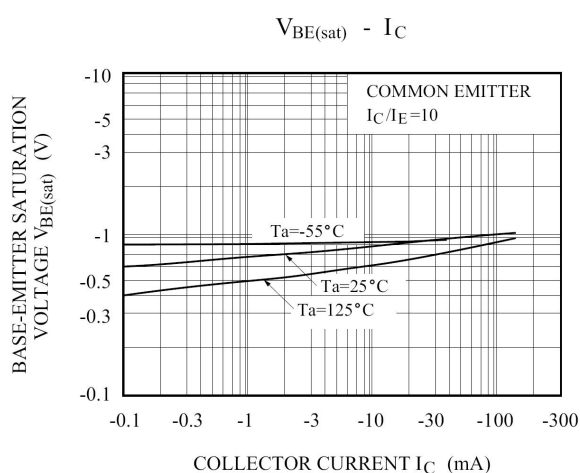
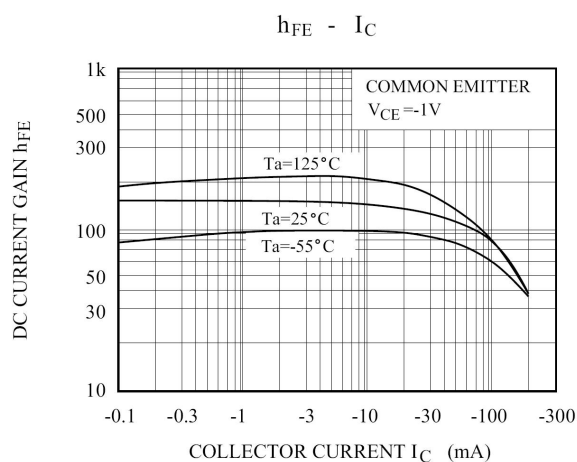
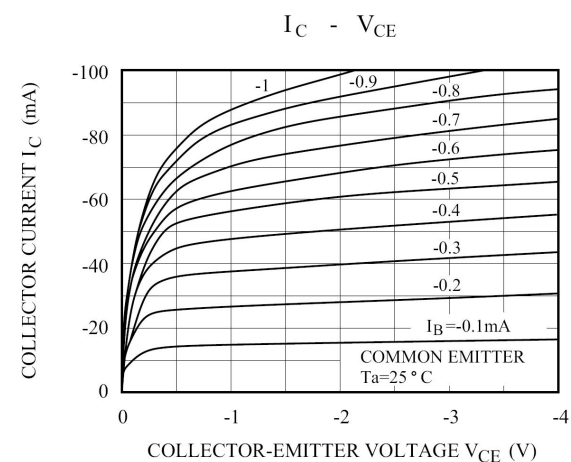
■ 电特性 ELECTRICAL CHARACTERISTICS

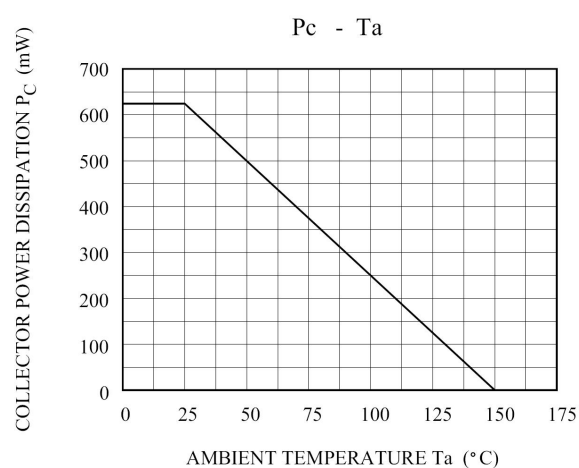
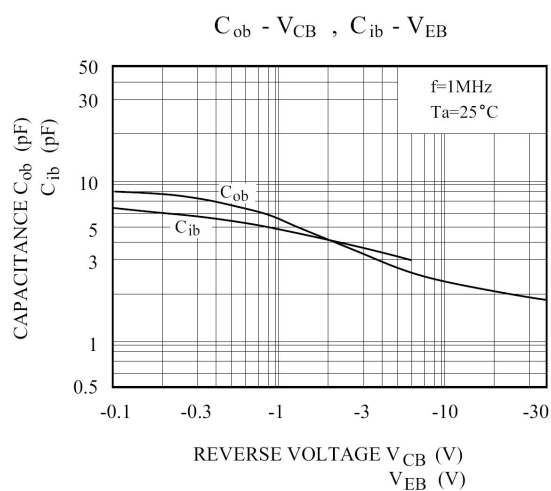
(TA=25°C unless otherwise noted 如无特殊说明, 温度为 25°C)

特性参数 CHARACTERISTIC	符号 SYMBOL	测试条件 TEST CONDITIONS	最小值 MIN.	典型值 TYP.	最大值 MAX.	单位 UNIT
集电极-基极反向击穿电压 Collector-Base Voltage	$V_{(BR)CBO}$	$I_C = -0.01mA, I_E = 0$	-40			V
集电极-发射极反向击穿电压 Collector-Emitter Voltage	$V_{(BR)CEO}$	$I_C = -1mA, I_B = 0$	-40			V
发射极-基极反向击穿电压 Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E = -0.01mA, I_C = 0$	-5			V
集电极截止电流 Collector Cut-off Current	I_{CBO}	$V_{CBO} = -40V, I_E = 0$			-0.1	μA
集电极截止电流 Collector Cut-off Current	I_{CEX}	$V_{CE} = -30V, V_{EB} = -3V$			-0.05	μA
基极截止电流 Base Cut-off Current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-0.1	μA
直流电流增益 DC Current Gain (Note *)	h_{FE}	$I_C = -0.1 mA, V_{CE} = -1.0 V$	60			
		$I_C = -1.0 mA, V_{CE} = -1.0 V$	80			
		$I_C = -10 mA, V_{CE} = -1.0 V$	100		300	
		$I_C = -50 mA, V_{CE} = -1.0 V$	60			
		$I_C = -100 mA, V_{CE} = -1.0 V$	30			
集电极-发射极饱和压降 Collector-Emitter Saturation Voltage (Note *)	$V_{CE(sat)}$	$I_C = -10mA, I_B = -1mA$			-0.25	V
		$I_C = -50mA, I_B = -5mA$			-0.4	
基极-发射极饱和压降 Base-Emitter Saturation Voltage (Note *)	$V_{BE(sat)}$	$I_C = -10mA, I_B = -1mA$	-0.65		-0.85	V
		$I_C = -50mA, I_B = -5mA$			-0.95	
电流增益-带宽乘积 Gain Bandwidth Product	f_T	$I_C = -10mA, V_{CE} = -20V$	250			MHz
共基极输出电容 Collector Output Capacitance	C_{ob}	$V_{CB} = -5V, I_E = 0, f = 1MHz$			4.5	PF
噪声系数 Noise factor	NF	$V_{CE} = -5V, I_C = -0.1mA, f = 15.7KHz, R_g = 1K\Omega$			4	dB
延迟时间 Delay Time	t_d	$V_{CC} = -3.0 V, V_{BE} = -0.5 V, I_C = -10 mA, I_{B1} = -1.0 mA$			35	ns
上升时间 Rise Time	t_r				35	
存储时间 Storage Time	t_s	$V_{CC} = -3.0 V, I_C = -10 mA, I_{B1} = I_{B2} = -1.0 mA$			225	
下降时间 Fall Time	t_f				75	

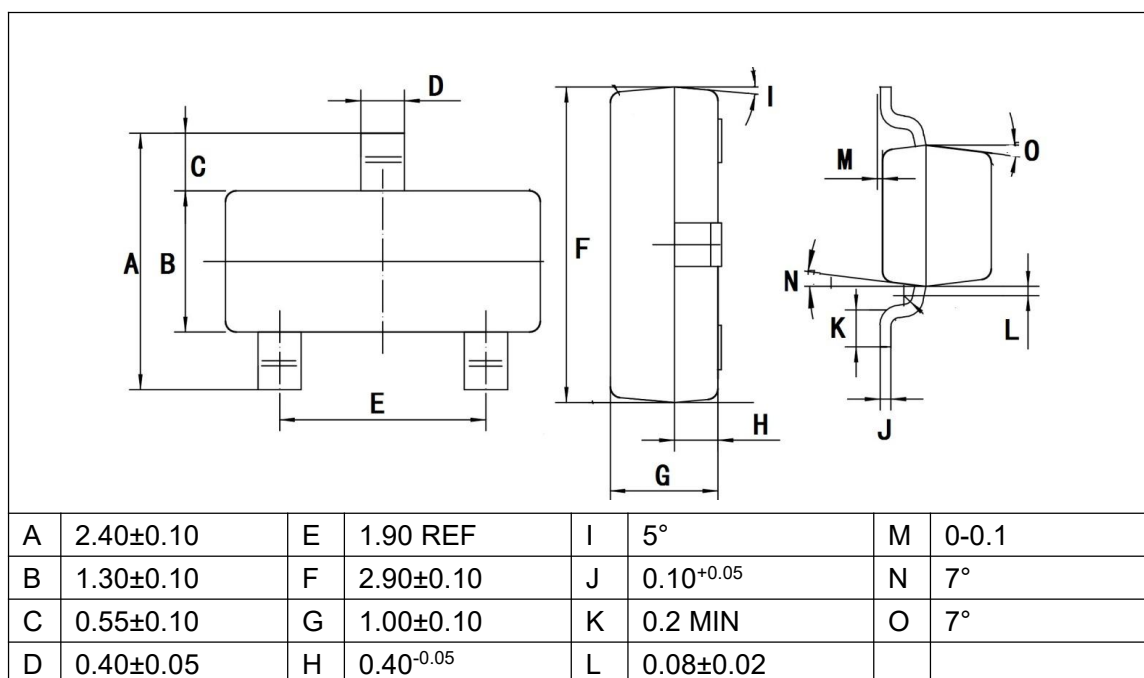
Note *: Pulse Test: Pulse Width < 300 us, Duty Cycle < 2.0%.

■ 典型特性 TYPICAL CHARACTERISTICS

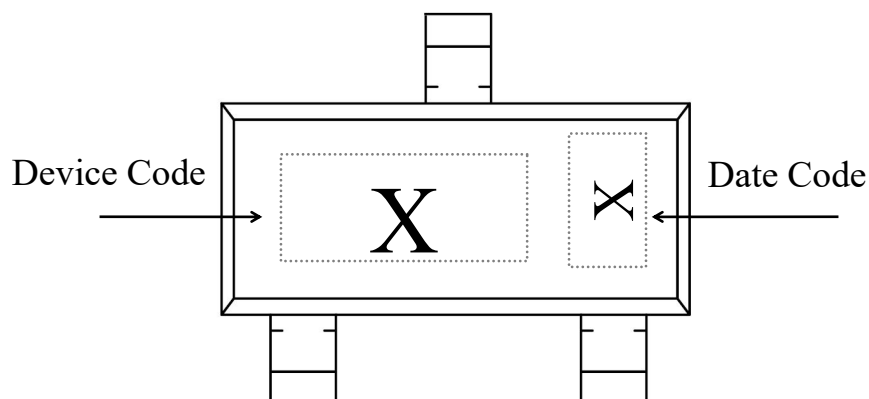




■ 外形尺寸 DIMENSION



■ 打标 DEVICE MARKING



Device	FHS3906-ME
h_{FE} Range	100~300
Code	2A

■ 包装信息 PACKAGE INFORMATION

材料名称 Material Name	颜色 Color	尺寸 Size	数量 Quantity	备注 Note
卷盘 Reel	蓝色 Blue	7 " *8mm	3K/Reel	
内盒 Inner Case	黄色 Yellow	185*185*140mm	30K/盒 (10 盘/盒) 30K/Case (10 Reel/ Case)	OHO2
外箱 Outer Box	黄色 Yellow	460*400*210mm	180K/箱 (6 盒/箱) 180K/Box (6 Case/Box)	OXO2
标签 Label	白色 White	68*40mm	—	贴卷盘、内盒、外箱 Label on reel、inner case、 outer box