

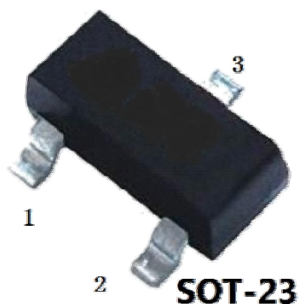
■ 描述 DESCRIPTIONS

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

■ 应用 APPLICATIONS

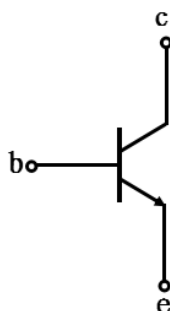
常规应用、开关电路。General purpose application,switching.

■ 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
DX	T：三极管	817	16 25 40	“—”	M: SOT-23	E：ROHS G: 绿色封装 Green Package

■ 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}	45	V
集电极-发射极电压 Collector-Emitter Voltage	V_{CEO}	35	V
发射极-基极电压 Emitter-Base Voltage	V_{EBO}	5	V
集电极电流 Collector Current	I_C	500	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
直流电流增益 DC Current Gain	hFE	VCE= 1V , Ic= 100mA	100		600	
集电极-基极反向截止电流 Collector Cut-off Current	ICBO	VCB= 45V , IE=0			0.1	μA
发射极-基极反向截止电流 Emitter Cut-off Current	IEBO	VEB= 4V , Ic=0			0.1	μA
集电极-基极反向击穿电压 Collector-Base Voltage	BVCBO	Ic= 0.1mA , IE=0	45			V
集电极-发射极反向击穿电压 Collector-Emitter Voltage	BVCEO	Ic= 10mA , IB=0	35			V
发射极-基极反向击穿电压 Emitter-Base Breakdown Voltage	BVEBO	IE= 0.1mA , Ic=0	5			V
集电极-发射极饱和压降 Collector-Emitter Saturation Voltage	VCE(sat)	Ic= 500mA , IB= 50mA			0.7	V
电流增益-带宽乘积 Gain Bandwidth Product	fT	Ic= 10mA , VCE= 5V , f= 50MHz	50	100		MHz
共基极输出电容 Collector Output Capacitance	Cob	VCB= 10V, IE=0, f = 1MHz			12	PF

■ 典型特性 TYPICAL CHARACTERISTICS

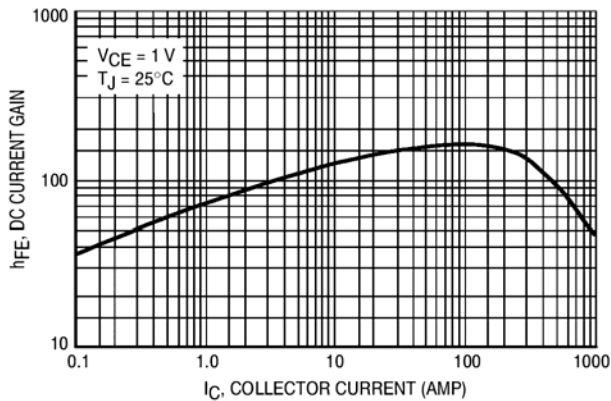


Figure 1. DC Current Gain

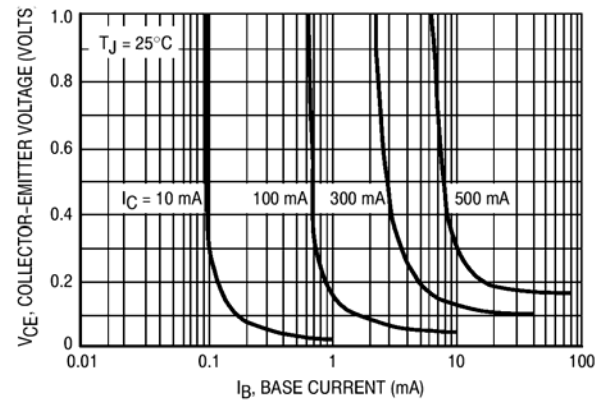


Figure 2. Saturation Region

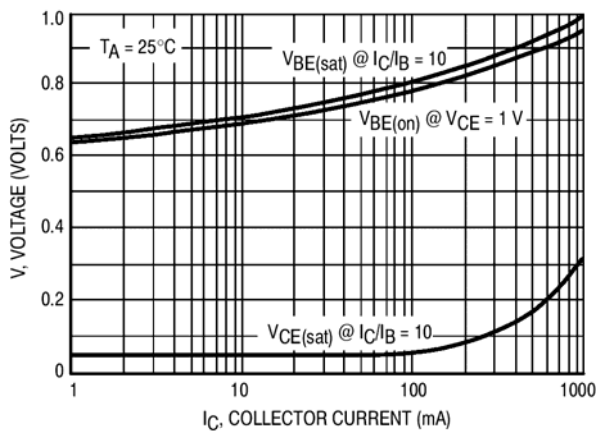


Figure 3. "On" Voltages

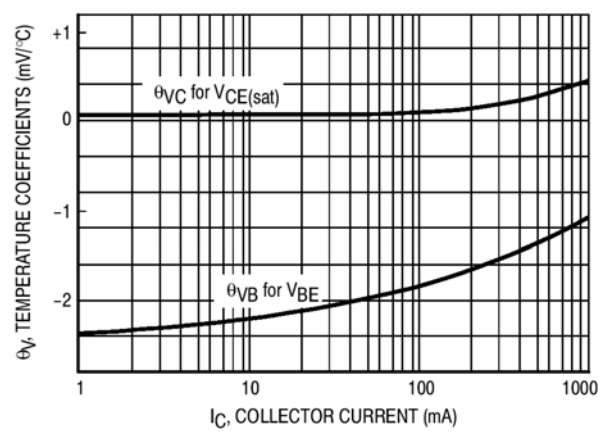


Figure 4. Temperature Coefficients

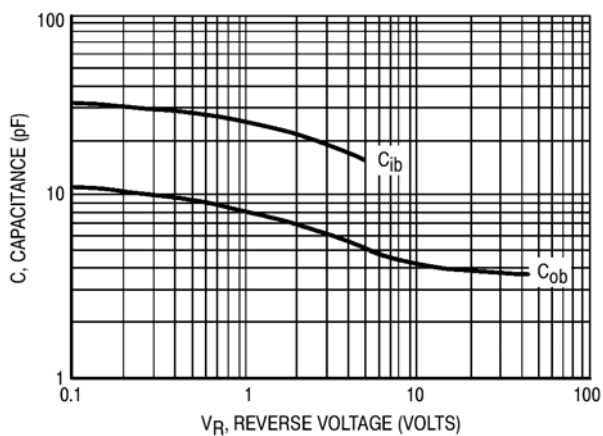
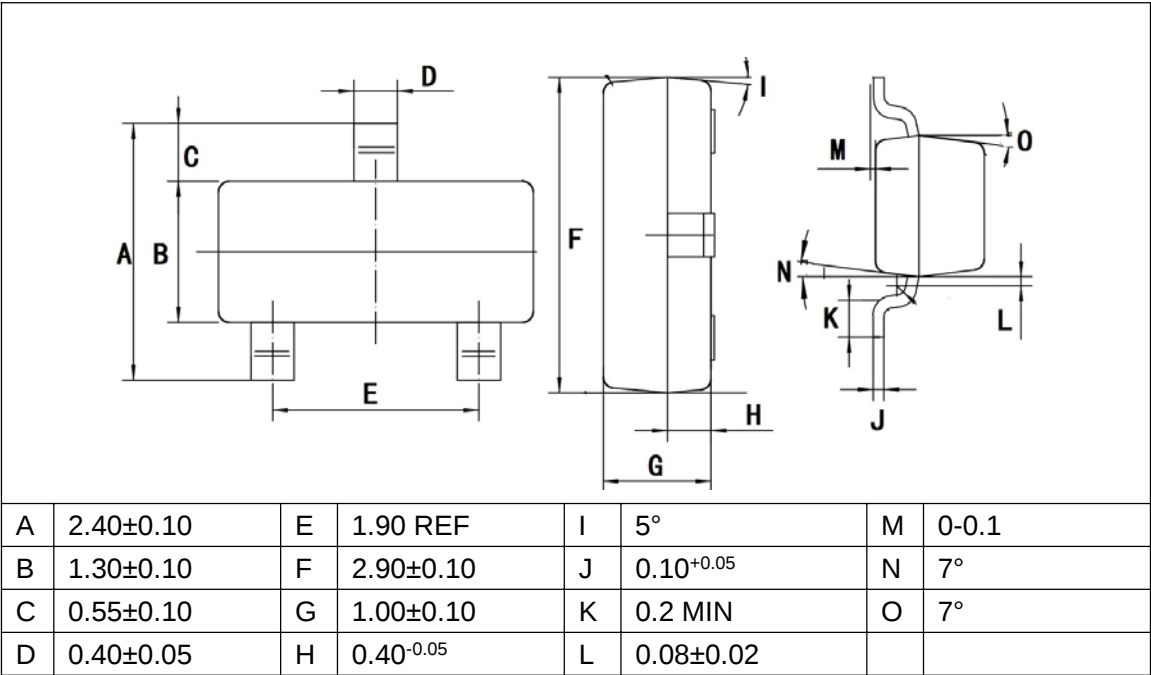
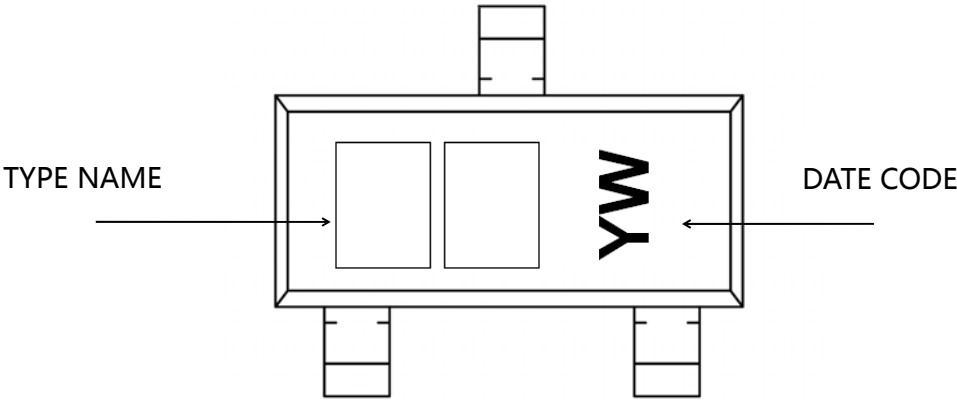


Figure 5. Capacitances

■ 外形尺寸 DIMENSION



■ 打标 DEVICE MARKING



TYPE	DXT817-16-ME	DXT817-25-ME	DXT817-40-ME
h _{FE}	100~250	160~400	250~600
MARK	6A	6B	6C

■ 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