

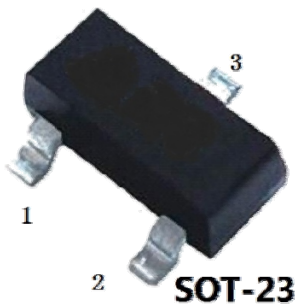
■ 描述 DESCRIPTIONS

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

■ 应用 APPLICATIONS

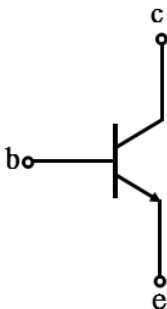
常规应用、开关电路。General purpose application,switching.

■ 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	1623	L4 L5 L6 L7	“—”	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}	60	Vdc
集电极-发射极电压 Collector-Emitter Voltage	V_{CEO}	50	Vdc
发射极-基极电压 Emitter-Base Voltage	V_{EBO}	5.0	Vdc
集电极电流-连续 Collector Current—Continuous	I_C	100	mAdc
基极电流 Base Current	I_B	30	mAdc
集电极耗散功率 Collector Power Dissipation	P_C	300	mW
结温 Junction Temperature	T_j	150	°C
储存温度 Storage Temperature Range	T_{stg}	-55 ~ 150	°C

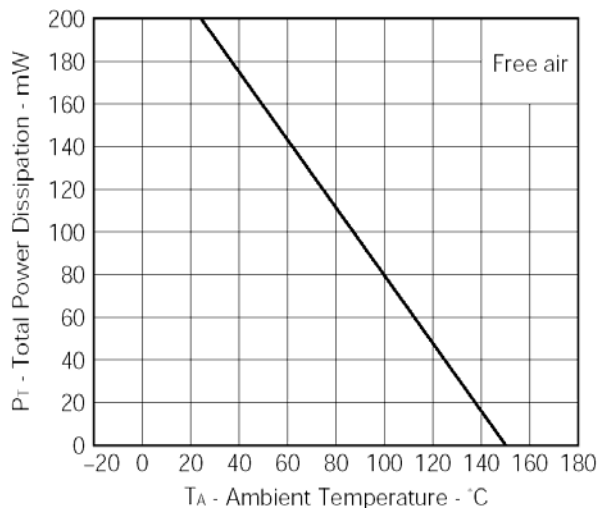
■ 电特性 ELECTRICAL CHARACTERISTICS

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

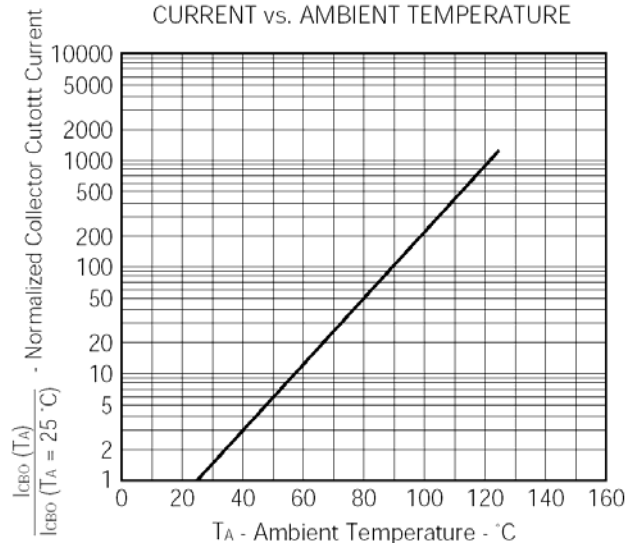
Characteristic 特性参数	Symbol 符号	Test Condition 测试条件	Min 最小值	TYP 典 型	Max 最大值	Unit 单位
集电极截止电流 Collector Cutoff Current	I_{CBO}	$V_{CB}=60V, I_E=0$	—	—	0.1	μA
发射极截止电流 Emitter Cutoff Current	I_{EBO}	$V_{EB}=5V, I_C=0$	—	—	0.1	μA
集电极-基极击穿电压 Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu A$	60	—	—	V
发射极-基极击穿电压 Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=100\mu A$	5	—	—	V
直流电流增益 DC Current Gain	h_{FE}	$V_{CE}=6V, I_C=1mA$	90	—	600	—
集电极-发射极饱和压降 Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100mA, I_B=10mA$	—	0.15	0.3	V
基极-发射极饱和压降 Base-Emitter Saturation Voltage	$V_{BE(sat)}$	$I_C=100mA, I_B=10mA$	—	0.86	1.0	V
基极-发射极电压 Base-Emitter Voltage	V_{BE}	$V_{CE}=6.0V, I_C=1mA$	0.55	0.62	0.65	V
特征频率 Transition Frequency	f_T	$V_{CE}=6.0V, I_C=10mA$	—	250	—	MHz
输出电容 Collector Output Capacitance	C_{ob}	$V_{CB}=6V, I_E=0, f=1MHz$	—	3.0	—	pF

■ 典型特性 TYPICAL CHARACTERISTICS

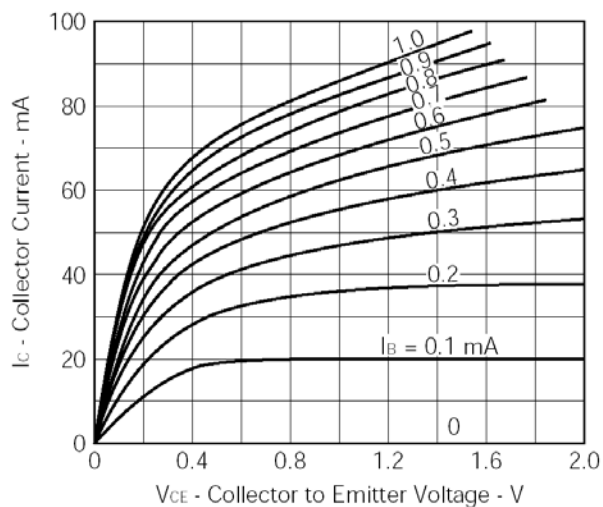
TOTAL POWER DISSIPATION vs.
AMBIENT TEMPERATURE



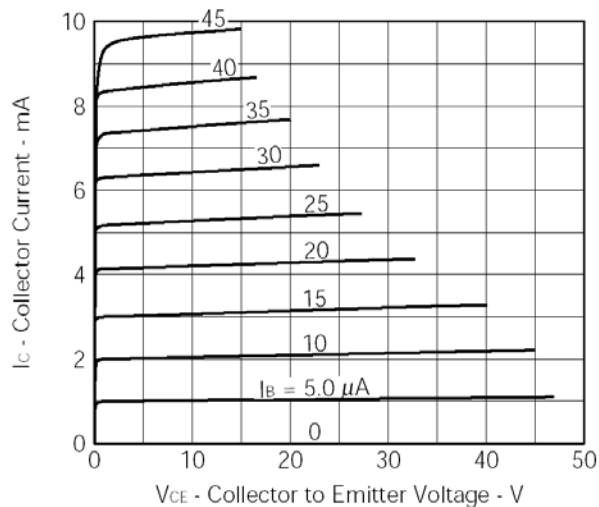
NORMALIZED COLLECTOR CUTOFF
CURRENT vs. AMBIENT TEMPERATURE



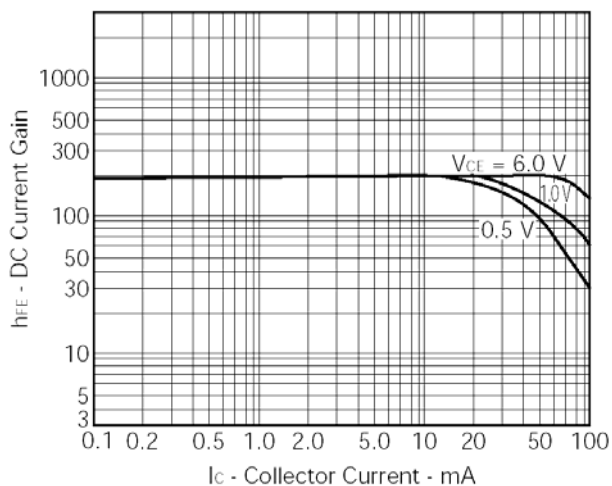
COLLECTOR CURRENT vs.
COLLECTOR TO EMITTER VOLTAGE



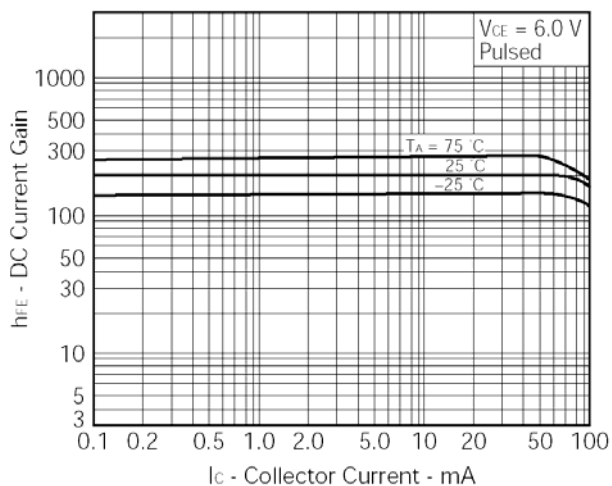
COLLECTOR CURRENT vs.
COLLECTOR TO EMITTER VOLTAGE



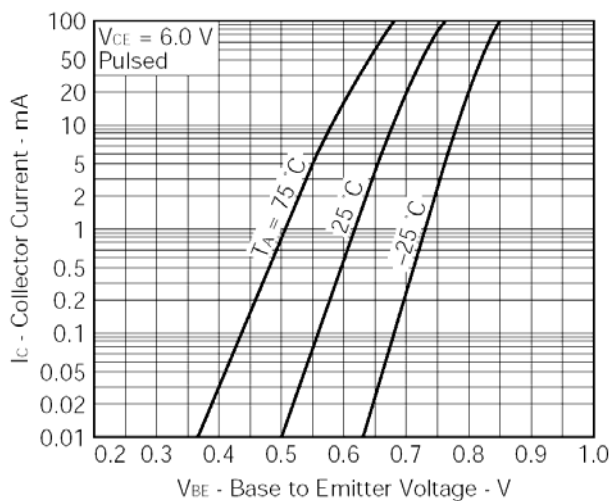
DC CURRENT GAIN vs.
COLLECTOR CURRENT



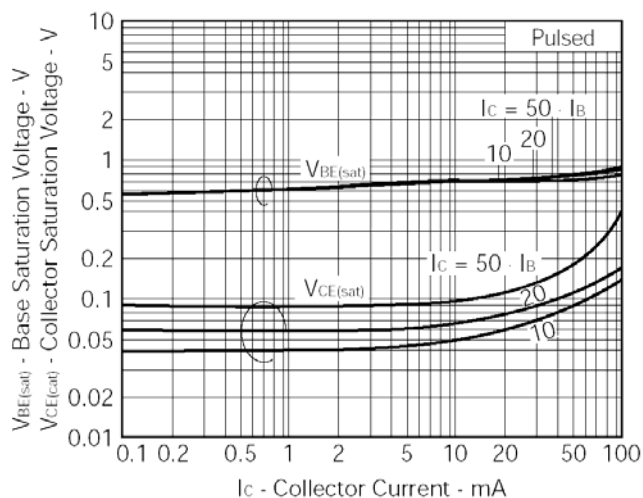
DC CURRENT GAIN vs.
COLLECTOR CURRENT



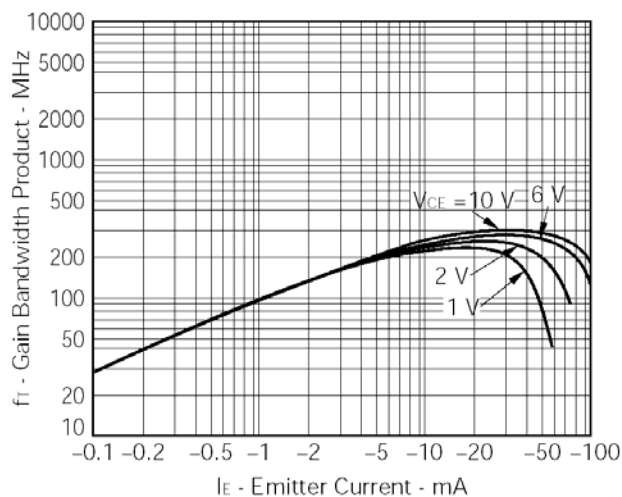
COLLECTOR CURRENT vs.
BASE TO EMITTER VOLTAGE



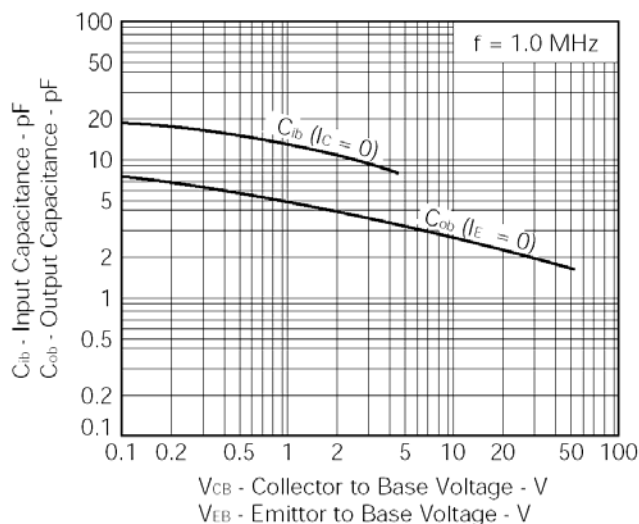
COLLECTOR AND BASE SATURATION
VOLTAGE vs. COLLECTOR CURRENT



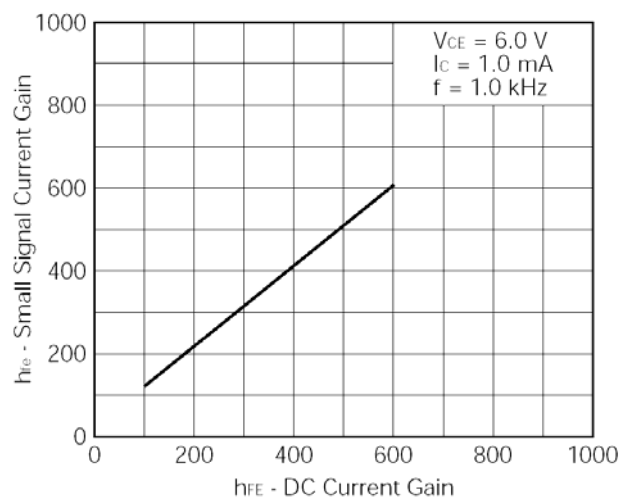
GAIN BANDWIDTH PRODUCT vs.
EMITTER CURRENT



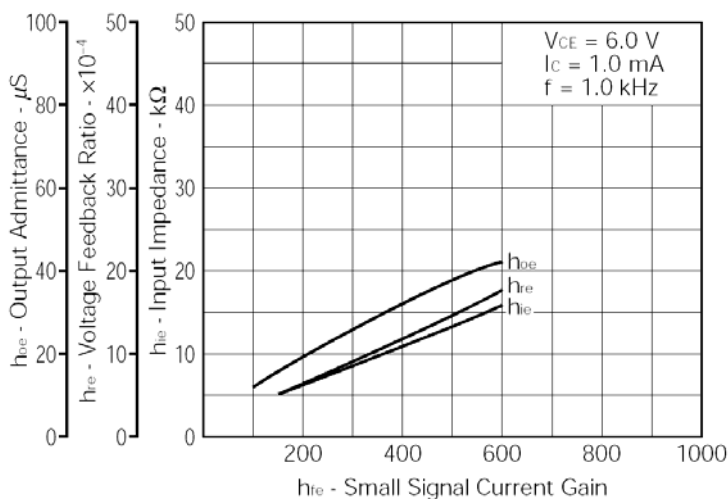
INPUT AND OUTPUT CAPACITANCE
vs. REVERSE VOLTAGE

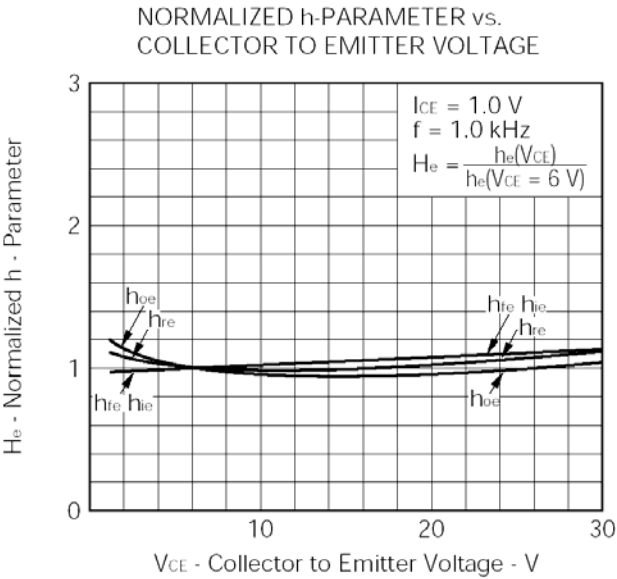
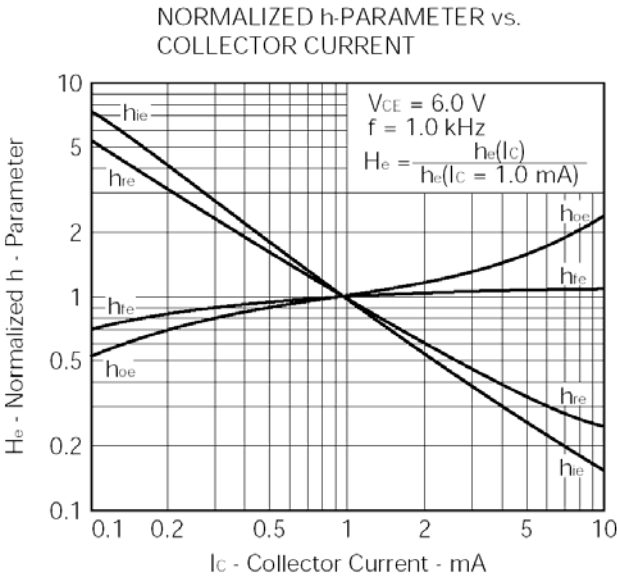


SMALL SIGNAL CURRENT GAIN vs.
DC CURRENT GAIN

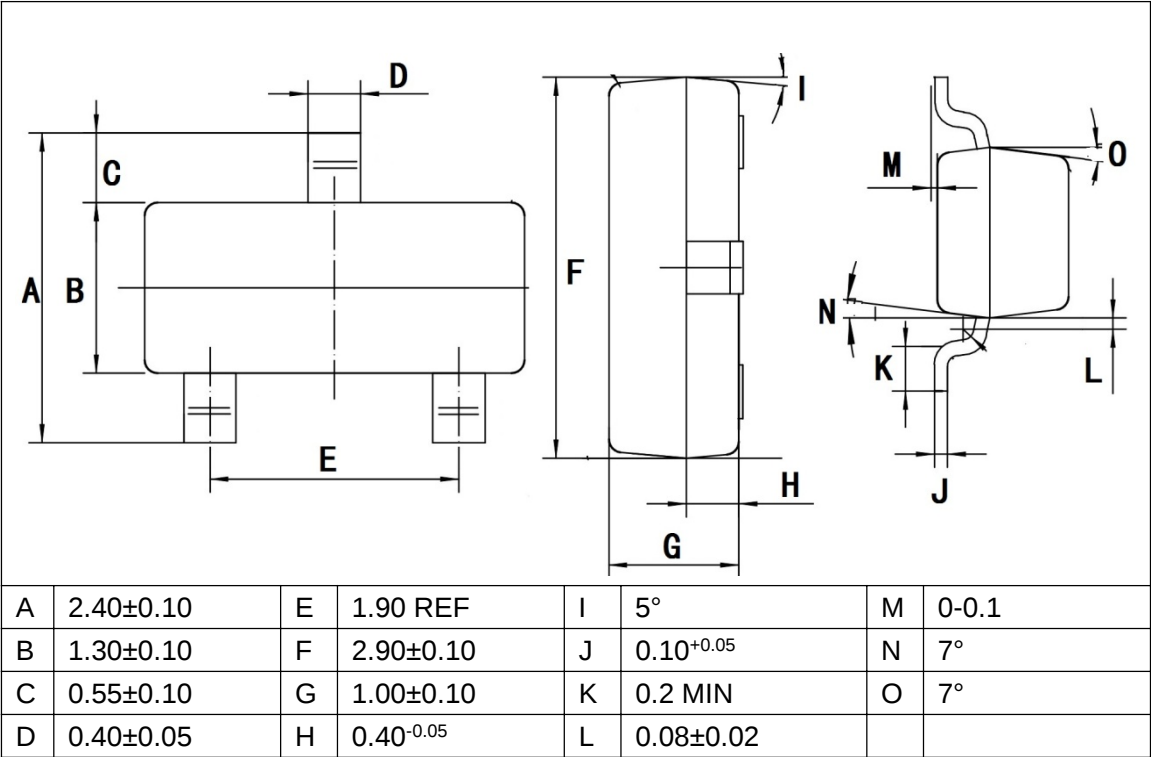


INPUT IMPEDANCE VOLTAGE FEEDBACK
RATIO AND OUTPUT ADMITTANCE vs.
SMALL SIGNAL CURRENT GAIN

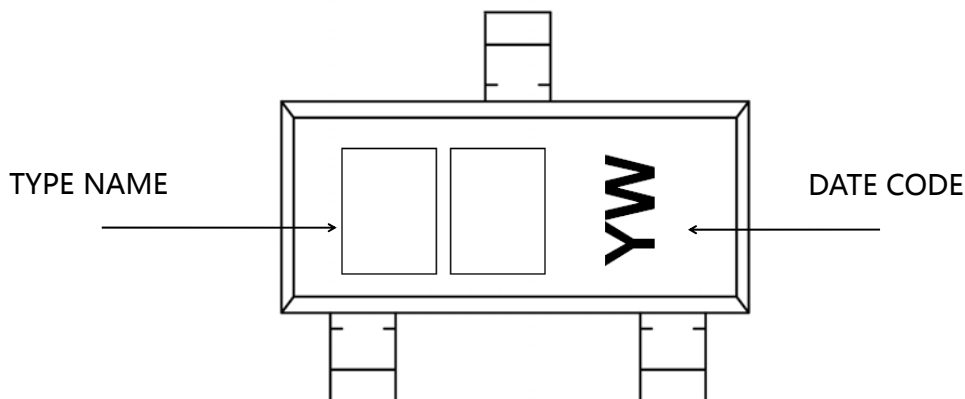




■ 外形尺寸 DIMENSION



■ 打标 DEVICE MARKING



TYPE	DXT1623L4-ME	DXT1623L5-ME	DXT1623L6-ME	DXT1623L7-ME
h_{FE}	90~180	135~270	200~400	300~600
MARK	L4	L5	L6	L7

■ 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