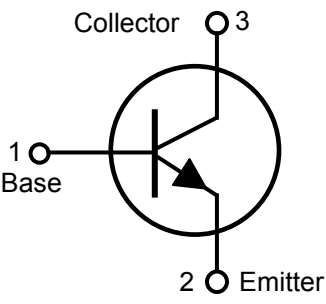


NPN型 小功率 贴片三极管 NPN High Voltage Transistor SMD	BC817 对应其他工业型号
■ Transistor Polarity: NPN ■ Transistor pinout: BEC ■ SOT-23 Package ■ Marking Code: ■ Ideal for Medium Power Amplification and Switching	

Inner circuit  SOT-23 内部结构	MOT817  SOT-23 管脚排列	元件标识 (打印)  DEVICE MARKING:
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■ CLASSIFICATION OF hFE

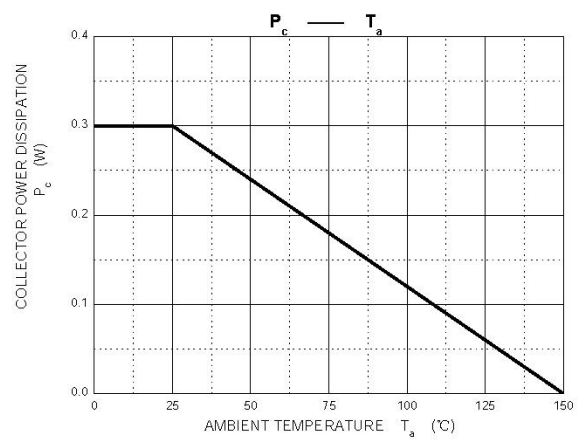
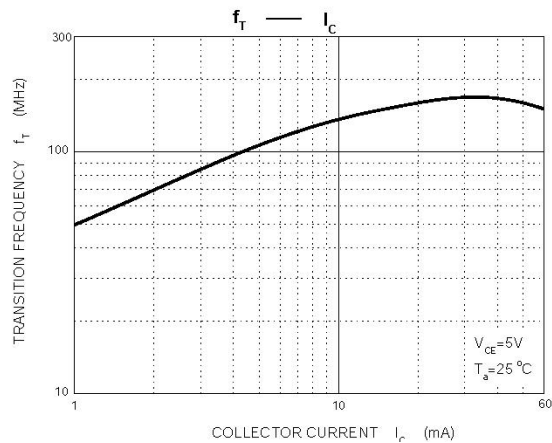
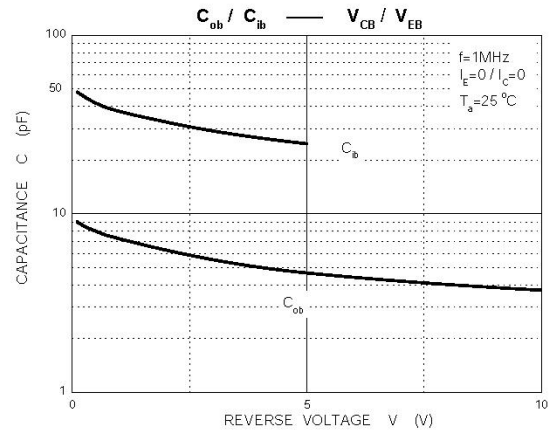
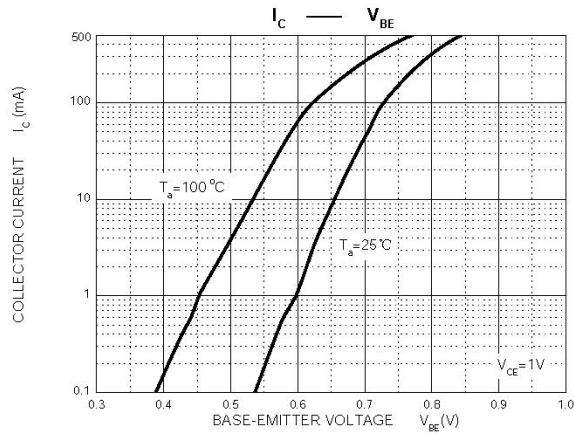
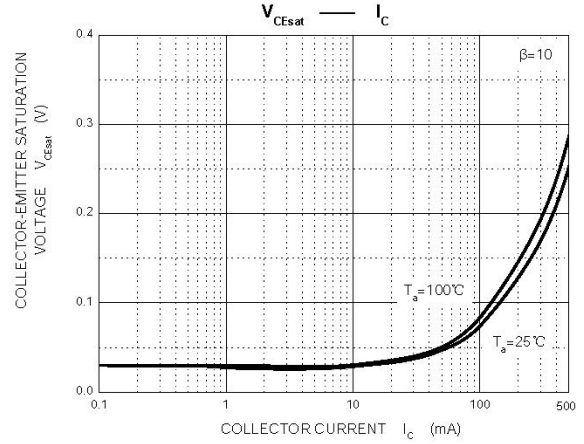
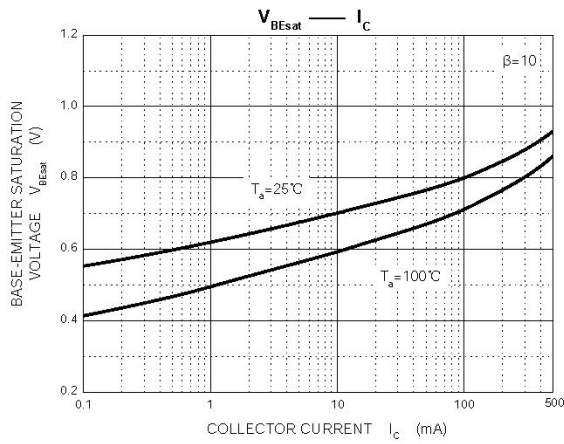
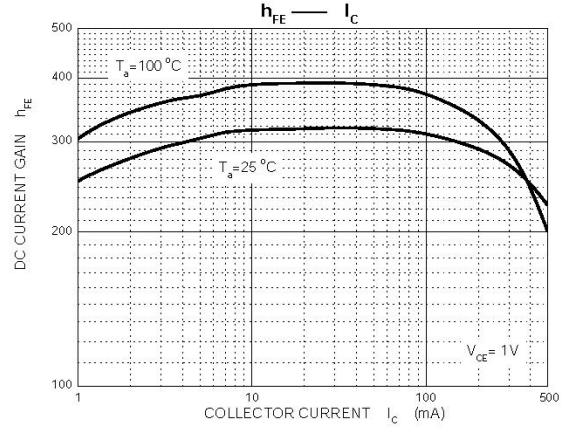
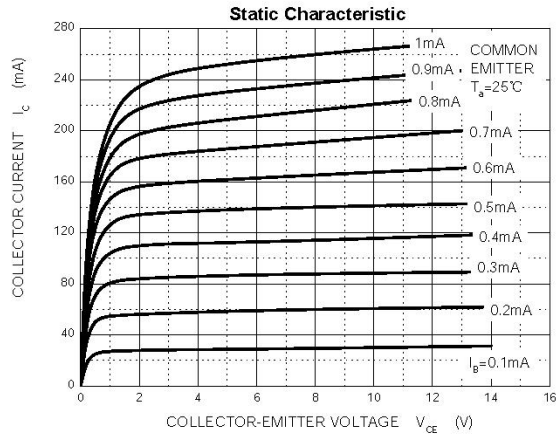
Rank	MOT817-16	MOT817-25	MOT817-40
Range	100-250	160-400	250-600
Marking	$\bar{6}A$	$\bar{6}B$	$\bar{6}C$

■ MAXIMUM RATINGS

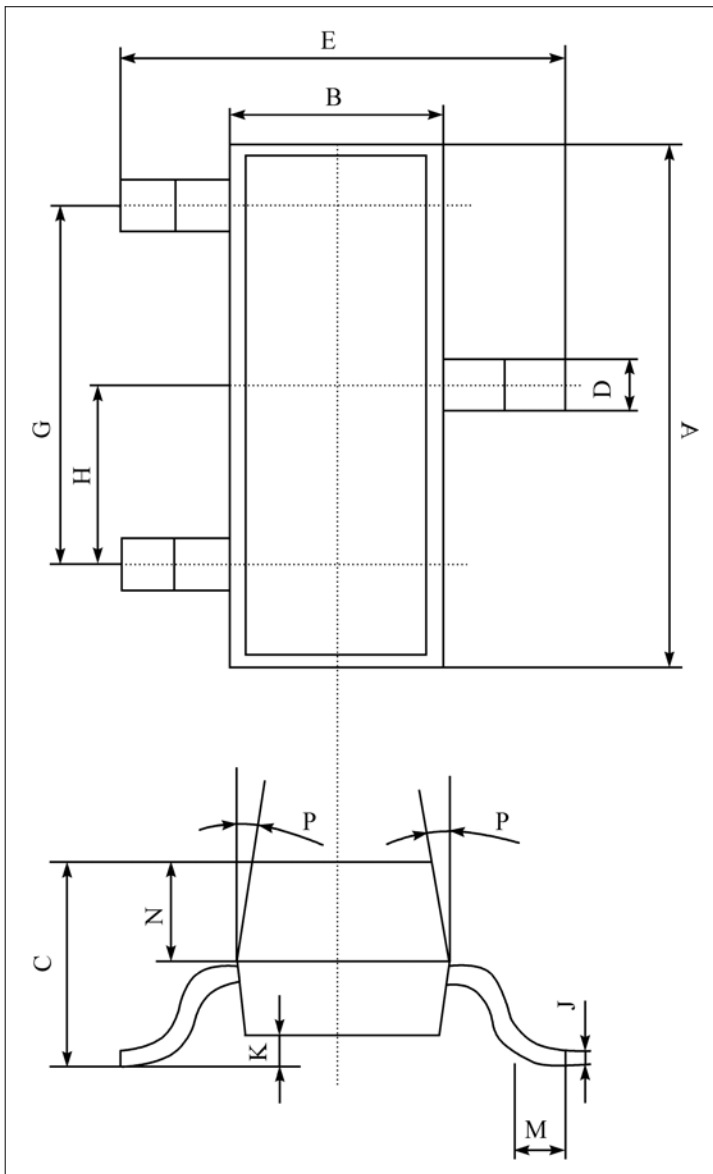
Parameter	Symbol	Max	Unit
Collector-base voltage	V_{CBO}	50	V
Collector-emitter voltage	V_{CEO}	45	V
Emitter-base voltage	V_{EBO}	5	V
Collector continuous current	I_C	500	mA
Collector power dissipation	P_C	300	mW
Thermal resistance from junction to ambient	$R_{\theta JA}$	417	°C/W
Operating junction and storage temperature range	T_j, T_{stg}	-55 ~ +150	°C

■ ELECTRICAL CHARACTERISTICS ($T_A=25^{\circ}\text{C}$ unless otherwise noted)

Parameter	Symbol	Test condition	Min	Typ	Max	Unit
Collector-base breakdown voltage	V_{CBO}	$I_C = 10\mu\text{A}, I_E = 0\text{A}$	50	-	-	V
Collector-emitter breakdown voltage	V_{CEO}	$I_C = 10\text{mA}, I_B = 0\text{A}$	45	-	-	V
Emitter-base breakdown voltage	V_{EBO}	$I_E = 1\mu\text{A}, I_C = 0\text{A}$	5	-	-	V
Collector cutoff current	I_{CBO}	$V_{CB} = 45\text{V}, I_E = 0\text{A}$	-	-	0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = 4\text{V}, I_C = 0\text{A}$	-	-	0.1	μA
DC current gain	$h_{FE(1)}$	$V_{CE} = 1\text{V}, I_C = 100\text{mA}$	100	-	600	-
	$h_{FE(2)}$	$V_{CE} = 1\text{V}, I_C = 500\text{mA}$	40	-	-	-
Collector-emitter saturation voltage	$V_{CE(sat)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$	-	-	0.7	V
Base-emitter saturation voltage	$V_{BE(sat)}$	$I_C = 500\text{mA}, I_B = 50\text{mA}$	-	-	1.2	V
Base-emitter voltage	V_{BE}	$V_{CE} = 1\text{V}, I_C = 500\text{mA}$	-	-	1.2	V
Collector capacitance	C_{ob}	$V_{CB} = 10\text{V}, f = 1\text{MHz}$	-	10	-	pF
Transition frequency	f_T	$V_{CE} = 5\text{V}, I_C = 10\text{mA}, f = 100\text{MHz}$	100	-	-	MHz



■ DIMENSION

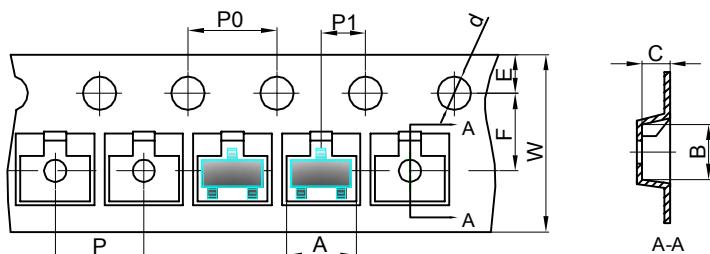


单位 (UNIT) : mm

序号	数值及公差
A	2.90 ± 0.10
B	1.30 ± 0.10
C	1.00 ± 0.10
D	0.40 ± 0.10
E	2.40 ± 0.20
G	1.90 ± 0.10
H	0.95 ± 0.05
J	0.13 ± 0.05
K	$0.00 - 0.10$
M	≥ 0.20
N	0.60 ± 0.10
P	$7 \pm 2^\circ$
Packing SOT-23 包装规格 SMD片式表面贴封装 包装方式: 载带卷盘包装 Tape & Reel, 3Kpcs/Reel 每卷数量3000只 (3Kpcs/Reel) 每盒数量45000只 (45Kpcs/BOX) 每箱数量180000只 (180Kpcs/Cartons)	

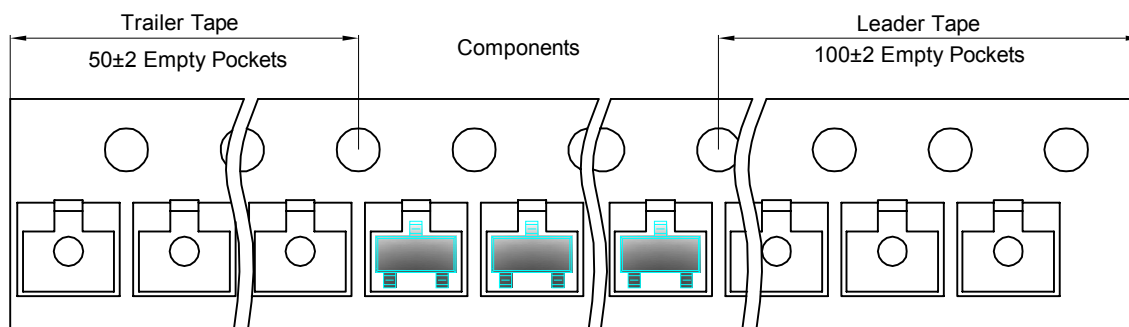
SOT-23 Tape and reel

SOT-23 Embossed Carrier Tape

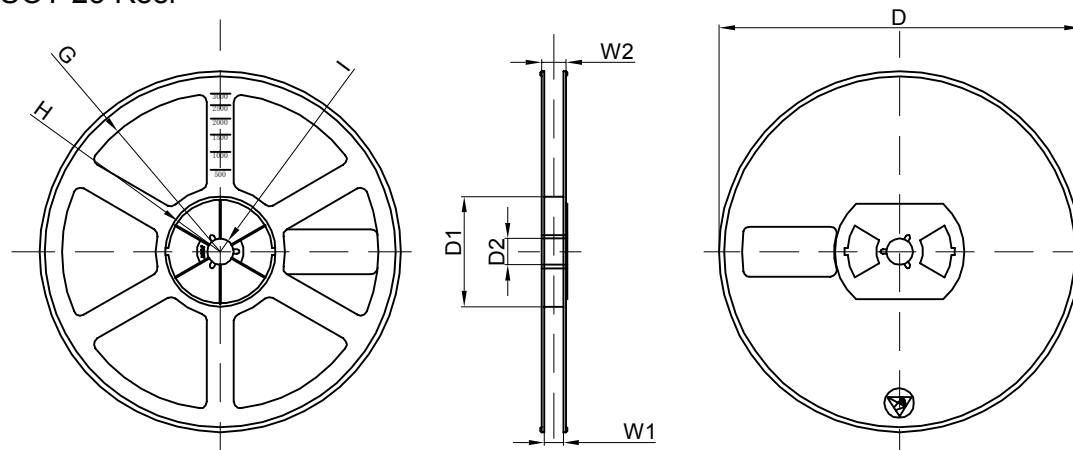


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

SOT-23 Tape Leader and Trailer



SOT-23 Reel



Dimensions are in millimeter								
Reel Option	D	D1	D2	G	H	I	W1	W2
7" Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30

REEL	Reel Size	Box	Box Size(mm)	Carton	Carton Size(mm)	G.W.(kg)
3000 pcs	7 inch	45,000 pcs	192×192×193	180,000 pcs	404×404×214	