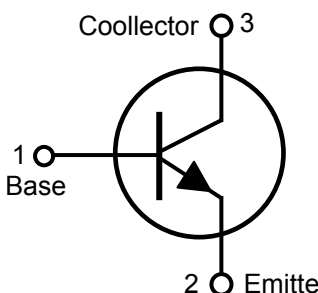
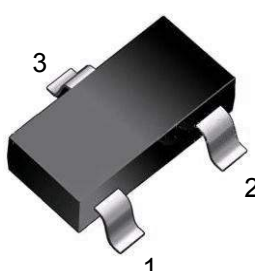


NPN型 小功率 贴片三极管 NPN EPITAXIAL PLANAR TRANSISTOR SMD	NXP3875G 对应其他工业型号
■Excellent hFE linearity ■Low noise ■Transistor Polarity: NPN ■Transistor pinout: BEC ■SOT-23 Package ■Marking Code: J6 ■hFE: 200~450, 450~1000	

Inner circuit  SOT-23 内部结构	NXP3875G  1. Base 2. Emitter 3. Collector SOT-23 管脚排列	元件标识（打印）  DEVICE MARKING
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■ CLASSIFICATION OF hFE

RANK	L	H
RANGE	200~450	450~1000

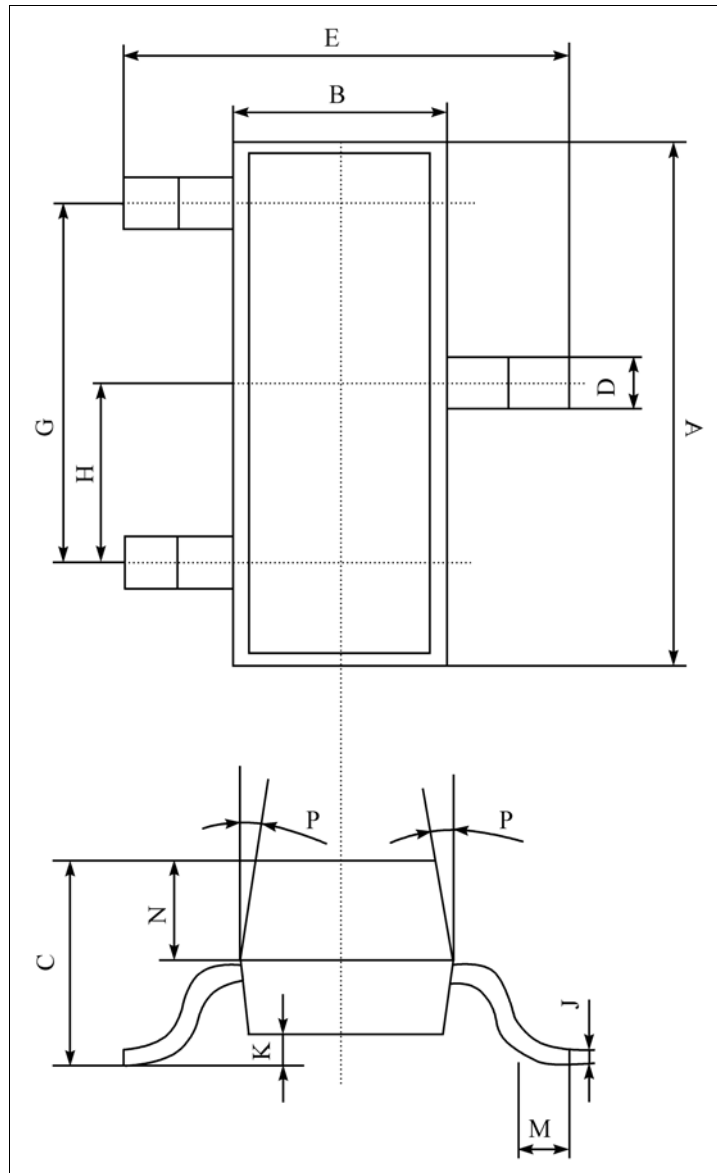
■ MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V_{CBO}	Collector-Base Voltage	50	V
V_{CEO}	Collector-Emitter Voltage	45	V
V_{EBO}	Emitter-Base Voltage	5	V
I_C	Collector Current	150	mA
P_C	Collector Power Dissipation	225	mW
T_J, T_{stg}	Operation Junction and Storage Temperature Range	-55~+150	°C

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

Characteristic	Symbol	Test Condition	Min	Typ	Max	Unit
Collector Cutoff Current	I_{CBO}	$I_E=0$ $V_{CB}=50\text{V}$	--	--	0.1	μA
Emitter Cutoff Current	I_{EBO}	$I_C=0$ $V_{EB}=5\text{V}$	--	--	0.1	μA
Collector-Base Breakdown Voltage	$V_{(BR)CBO}$	$I_C=100\mu\text{A}$	50	--	--	V
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C=1.0\text{mA}$	45	--	--	V
Emitter-Base Breakdown Voltage	$V_{(BR)EBO}$	$I_E=100\mu\text{A}$	5	--	--	V
DC Current Gain	h_{FE}	$V_{CE}=5\text{V}$ $I_C=1\text{mA}$	200	--	1000	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=100\text{mA}$ $I_B=5\text{mA}$	--	--	0.3	V
Base-Emitter Saturation	V_{BE}	$V_{CE}=5\text{V}$ $I_C=2\text{mA}$	--	--	0.7	V
Transition Frequency	f_T	$V_{CE}=5\text{V}$ $I_C=10\text{mA}$	150			MHz
Collector Output Capacitance	C_{OB}	$I_E=0$ $V_{CB}=10\text{V}$ $f=1\text{MHz}$	--		3.5	pF

■ DIMENSION



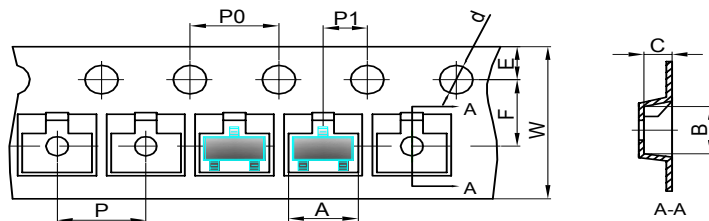
单位 (UNIT) : mm

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±2°

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)

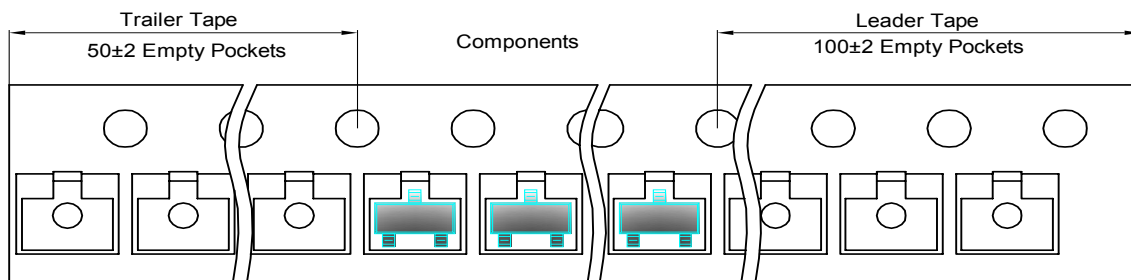
SOT-23 Tape and reel

SOT-23 Embossed Carrier Tape

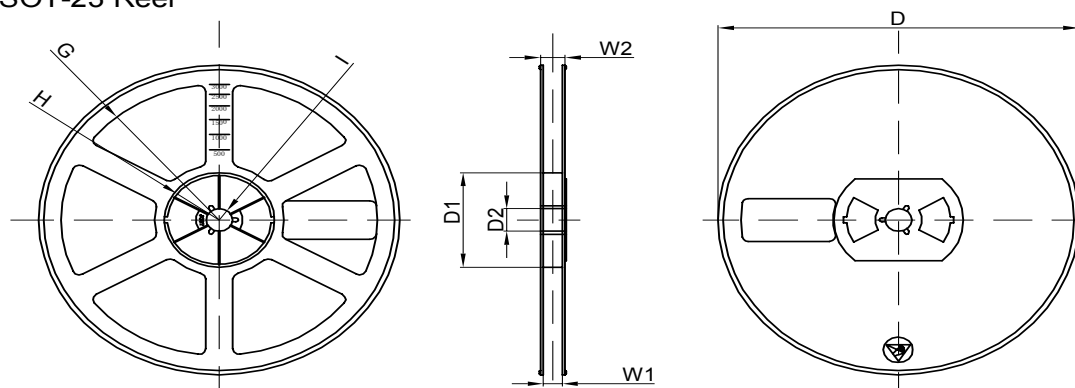


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

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	