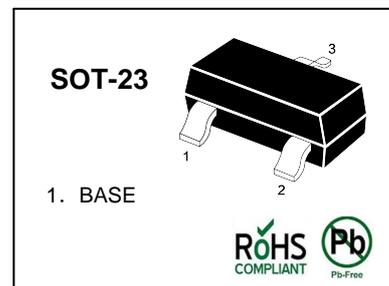


### PNP General Purpose Transistor

for amplifier applications

On special request, these transistors can be manufactured in different pin configurations.

MARKING: 2GM



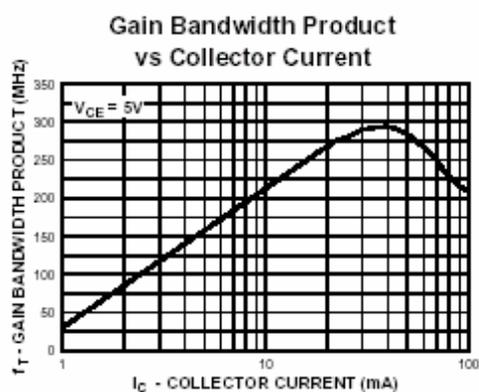
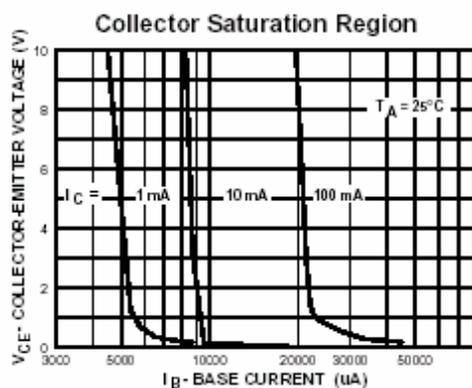
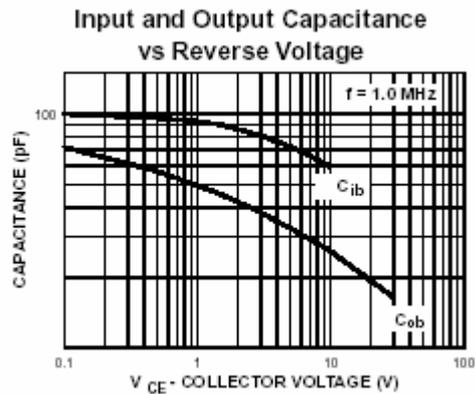
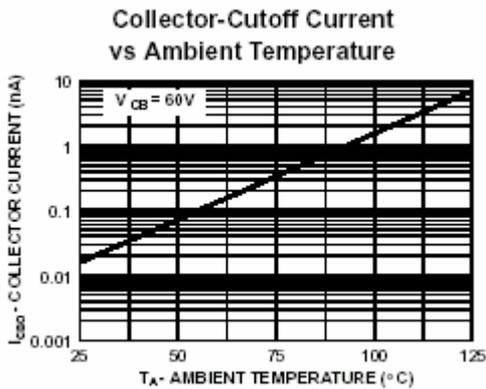
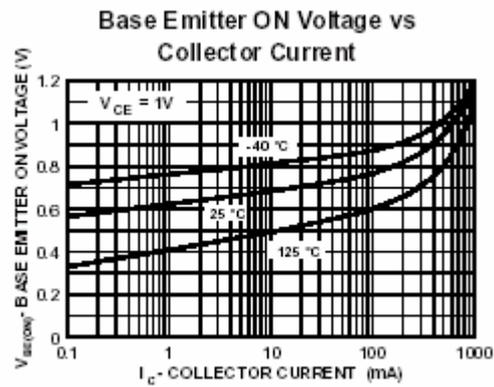
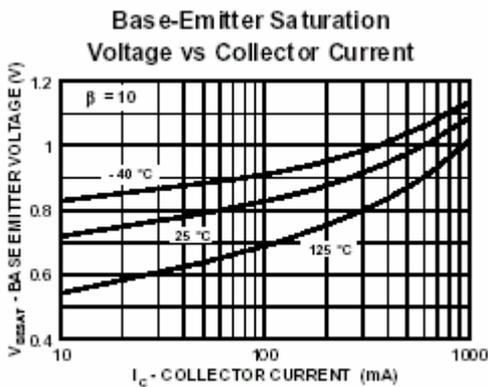
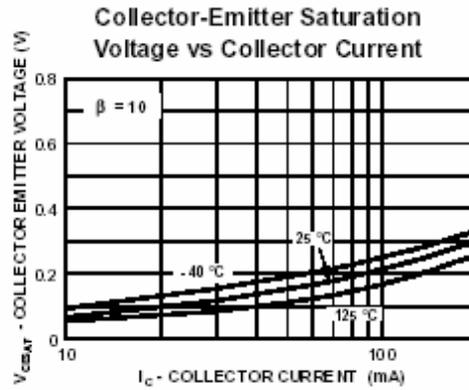
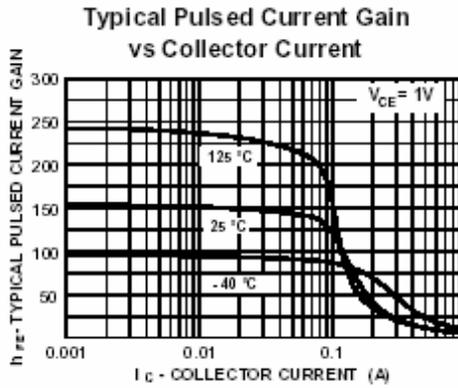
### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	80	V
Collector Emitter Voltage	$-V_{CEO}$	80	V
Emitter Base Voltage	$-V_{EBO}$	4	V
Collector Current	$-I_C$	500	mA
Total Device Dissipation Derate above 25°C	$P_{tot}$	200 2.8	mW mW/°C
Thermal Resistance, Junction to Ambient	$R_{\theta JA}$	357	°C/W
Junction Temperature	$T_j$	-55 to +150	°C
Storage Temperature Range	$T_S$	-55 to +150	°C

### Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

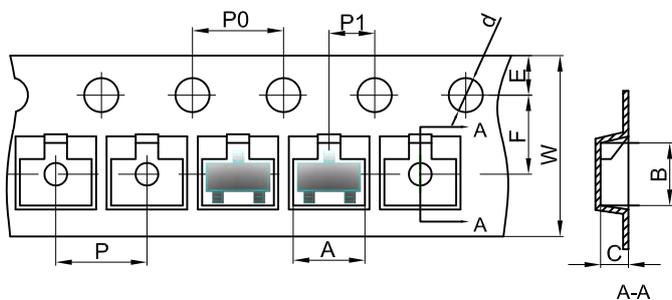
	Symbol	Min.	Max.	Unit
DC Current Gain				
at $-I_C=10\text{mA}$ , $-V_{CE}=1\text{V}$	$h_{FE}$	100	-	-
at $-I_C=100\text{mA}$ , $-V_{CE}=1\text{V}$	$h_{FE}$	100	-	-
Collector Cutoff Current				
at $-V_{CB}=80\text{V}$	$-I_{CBO}$	-	0.1	$\mu\text{A}$
Collector Cutoff Current				
at $-V_{CE}=60\text{V}$	$-I_{CEO}$	-	0.1	$\mu\text{A}$
Collector Emitter Breakdown Voltage				
at $-I_C=1\text{mA}$	$-V_{(BR)CEO}$	80	-	V
Collector Base Breakdown Voltage				
at $-I_C=100\mu\text{A}$	$-V_{(BR)CBO}$	80	-	V
Emitter Base Breakdown Voltage				
at $-I_E=100\mu\text{A}$	$-V_{(BR)EBO}$	4	-	V
Collector Emitter Saturation Voltage				
at $-I_C=100\text{mA}$ , $-I_B=10\text{mA}$	$-V_{CE(sat)}$	-	0.25	V
Base Emitter On Voltage				
at $-I_C=100\text{mA}$ , $-V_{CE}=1\text{V}$	$-V_{BE(on)}$	-	1.2	V
Current Gain – Bandwidth Product				
at $-I_C=100\text{mA}$ , $-V_{CE}=1\text{V}$ , $f=100\text{MHz}$	$f_T$	50	-	MHz

## Typical Characteristics



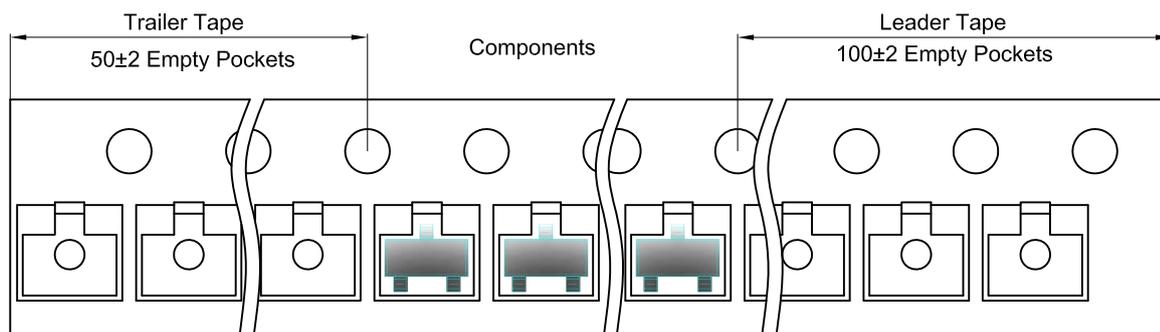
## SOT-23 Tape and Reel

### SOT-23 Embossed Carrier Tape

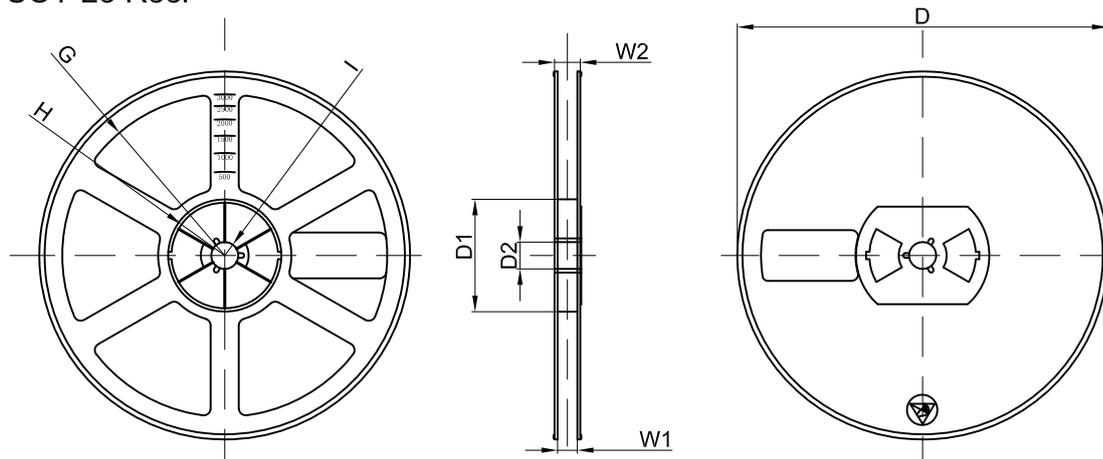


Dimensions are in millimeter										
Pkg type	A	B	C	d	E	F	P0	P	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

### SOT-23 Tape Leader and Trailer

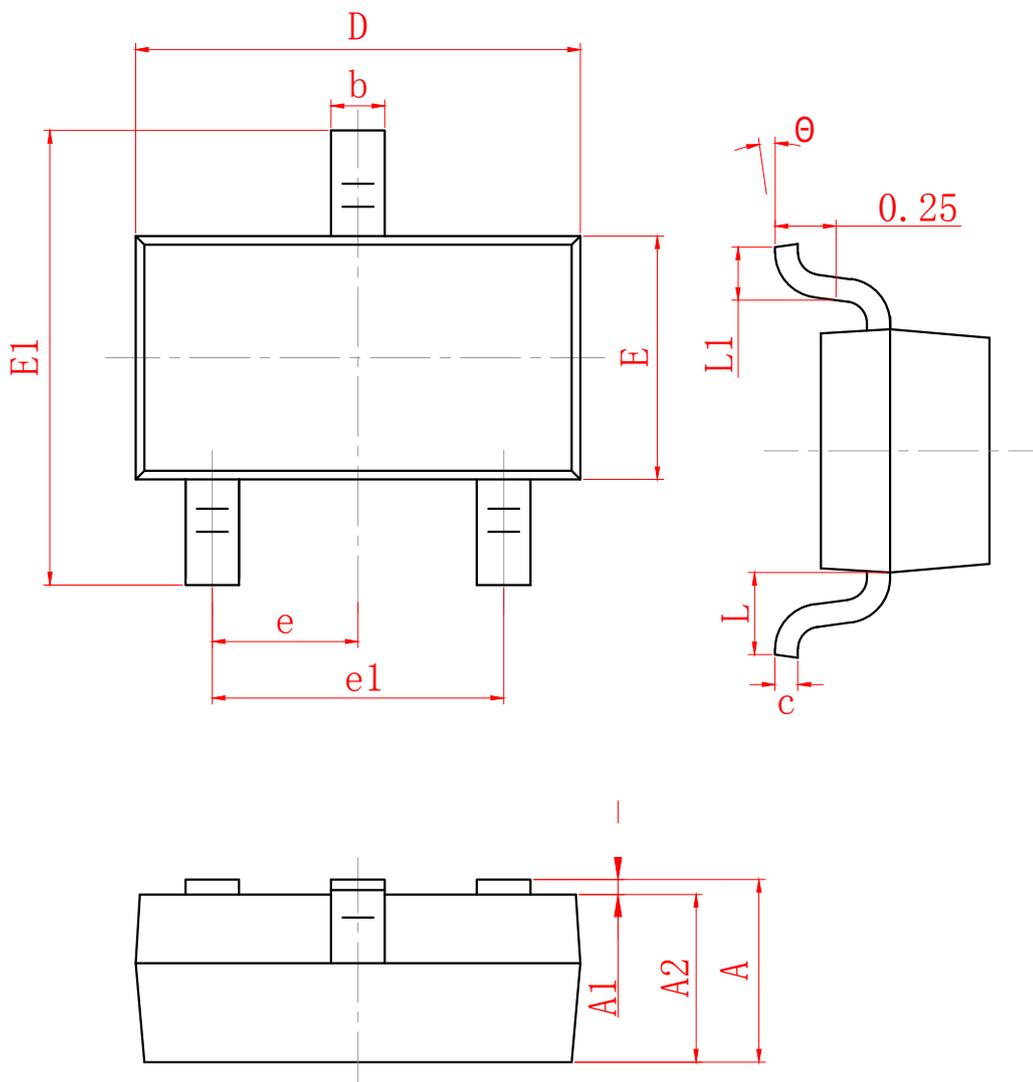


### SOT-23 Reel



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	203×203×195	180,000 pcs	438×438×220	



SYMBOL	MILLIMETER	
	MIN	MAX
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950 TYP	
e1	1.800	2.000
L	0.550 REF	
L1	0.300	0.500
$\theta$	0°	8°

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