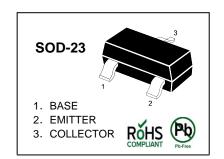


# **NPN Silicon Epitaxial Planar Transistor**

for switching and AF amplifier applications.

The transistor is subdivided into four groups, O, Y, G and L, according to its DC current gain.

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



Absolute Maximum Ratings (T<sub>a</sub> = 25 °C)

Farameter	Зуппон	value	Offic
Cullectul Dase vultage	V CBO	υυ	v
Collector Ethitter voltage	V CEO	υυ	v
EIIIIIIei Dase vuilaye	v <sub>EBO</sub>	υ	V
Collector Current	IC	เอบ	IIIA
Dase Guileiii	ι <sub>B</sub>	ວບ	ША
ruwei Dissipatiuli	r <sub>tot</sub>	ວບບ	IIIVV
Junicuon remperature	l j	ΙΰŪ	٠-
owage remperature name	I stg	- ၁၁ เบ + 150	~ <u>_</u>

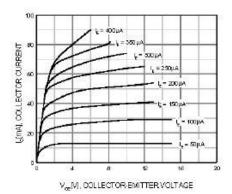
#### Characteristics at T<sub>a</sub> = 25 °C

Characteristics at 1a = 23 C						
at $V_{CE} = 6 \text{ V}$ , $I_{C} = 150 \text{ mA}$	Y G L	h <sub>FE</sub> h <sub>FE</sub> h <sub>FE</sub>	120 200 350 25	- - - 100	240 400 700	

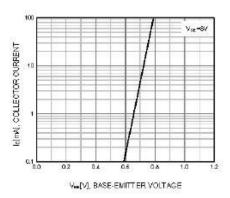
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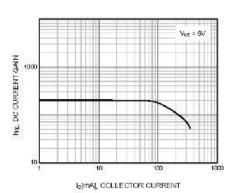
#### **Typical Characteristics**



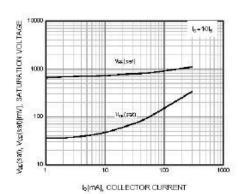
Static Characteristic



Transfer Characteristic



DC current Gain



Base-Emitter Saturation Voltage Collector-Emitter Saturation Voltage

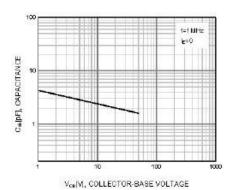


Figure 5. Output Capacitance

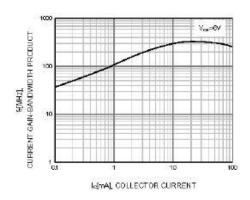
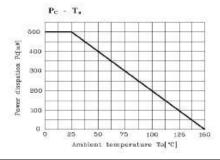


Figure 6. Current Gain Bandwidth Product

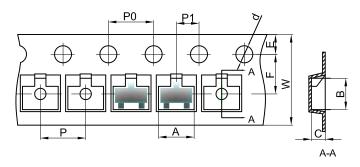


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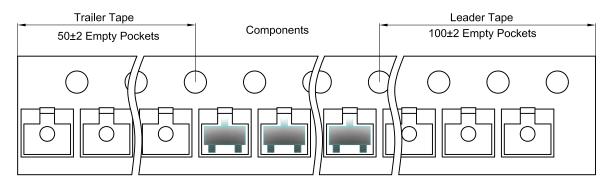
# **SOT-23 Tape and Reel**

# SOT-23 Embossed Carrier Tape

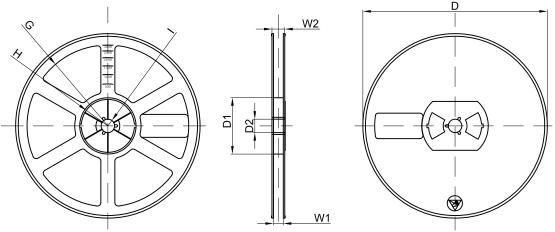


Dimensions are in millimeter										
Pkg type	Α	В	С	d	E	F	P0	Р	P1	W
SOT-23	3.15	2.77	1.22	Ø1.50	1.75	3.50	4.00	4.00	2.00	8.00

### SOT-23 Tape Leader and Trailer





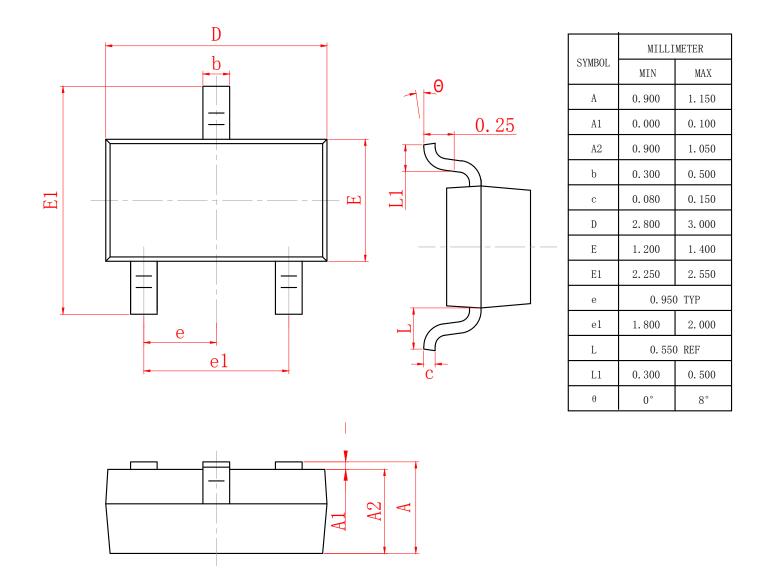


Dimensions are in millimeter									
Reel Option D D1 D2 G H I W1 W2							W2		
7"Dia	Ø178.00	54.40	13.00	R78.00	R25.60	R6.50	9.50	12.30	

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	

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