

# SOT223

# PACKAGE INFORMATION

#### **Mechanical Data**

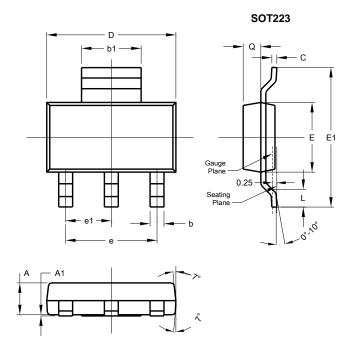
- Surface Mount Package
- Case Material: Molded Plastic, UL Flammability Rating 94V-0
- Terminals: Finish Matte Tin.
  Solderable per MIL-STD-202, Method 208
- Weight: 0.112 grams (Approximate)

#### Package View



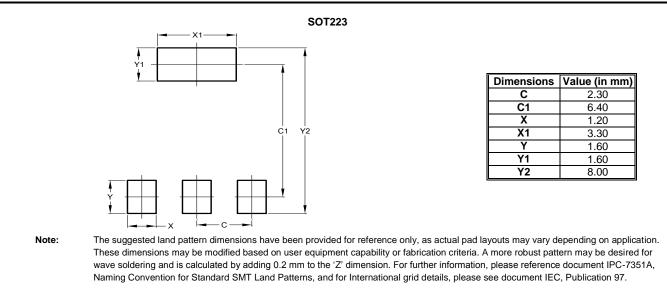
Top View

# **Package Outline Dimensions**



SOT223						
Dim	Min	Тур				
Α	1.55	1.65	1.60			
A1	0.010	0.15	0.05			
b	0.60	0.80	0.70			
b1	2.90	3.10	3.00			
С	0.20	0.30	0.25			
D	6.45	6.45 6.55				
Е	3.45	3.55	3.50			
E1	6.90	7.10	7.00			
е	е -		4.60			
e1	-	-	2.30			
L	L 0.85		0.95			
Q	<b>Q</b> 0.84		0.89			
All Dimensions in mm						

#### **Suggested Pad Layout**



Note: For high voltage applications, the appropriate industry sector guidelines should be considered with regards to creepage and clearance distances between device Terminals and PCB tracking.

SOT223 Package Information Rev. 2017-03-06



## **Minimum Packing Quantity**

	Quantity	Tape Width	Part Number Suffix	
Tube	75			
7" Reel	1,000	12mm	ТА	
13" Reel	2,500	12mm	-13	
13" Reel	4,000	12mm	TC	

Package quantities given are for minimum packaging quantity only, not minimum order quantity. For minimum order quantity, please contact Sales Note: Department.

Note: No mixed date codes or partial quantity (less than minimum packaging quantity) per packaging is allowed.

Note: In no case shall there be two or more consecutive components missing from any reel for any reason.

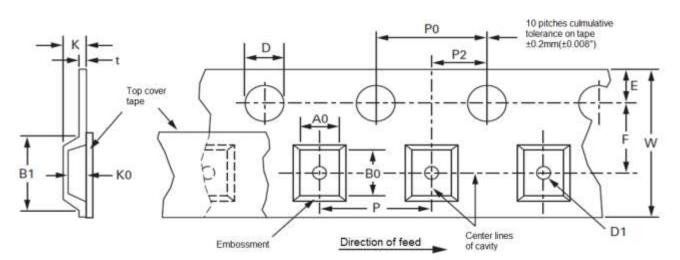
#### **Device Tape Orientation**

Tape Width	Part Number Suffix	Tape Orientation		
12mm	-13 TA TC			
		Direction of feed		

Note:

For part marking, refer to product datasheet. Tape and package drawings are not to scale and are shown for device tape orientation only. Note:

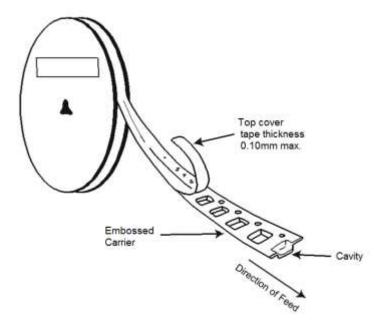
#### **Embossed Carrier Tape Specifications**

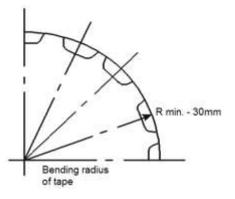


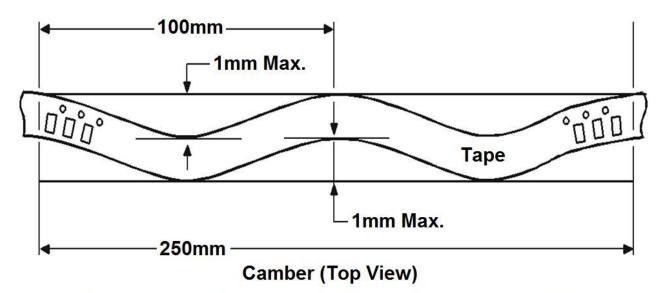
Tape Width (W)	Dimension	Value (mm)	Dimension	Value (mm)	Dimension	Value (mm)		
	B1	8.2 max.	F	5.5±0.05	P2	2.0±0.05		
	D	1.5+0.10 -0.0	к	4.5 max.	t	0.40 max.		
12mm	D1	1.5 min.	Р	8.0±0.10	w	12±0.30		
1211111	E	1.75±0.10	P0	4.0±0.10				
	A0 B0 K0	Determined by component size. The clearance between the component and the cavity must comply to the rotational and lateral movement requirement provided in figures in the "Maximum Component Movement in Tape Pocket" section.						



# **SOT223**





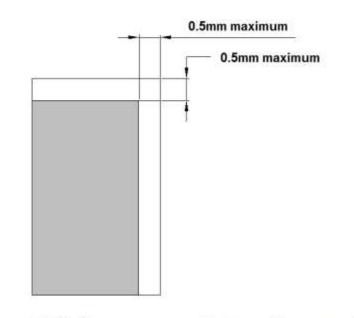


Allowable camber to be 1mm/100mm tape, non-cumulative

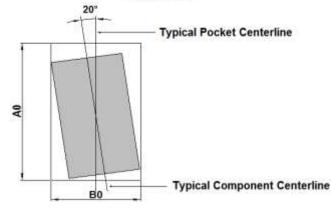


# Maximum Component Movement in Tape Pocket





#### Maximum Component Rotation Top View

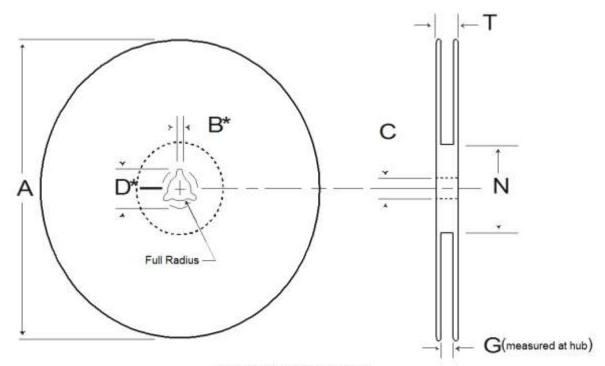


## Maximum Component Rotation Side View





# **Surface Mount Reel Specifications**



<sup>\*</sup> Drive spokes optional. If used, dimensions with asterisks apply

	Tape Width	Reel Size	A (mm)	B Max (mm)	C (mm)	D Max (mm)	N Min (mm)	G (mm)	T Max (mm)
	12mm -	7"	178 ±2	2.0 +0.5 -0	13 +0.5 -0.2	20.5 ±0.2	55 ±5	12.4 +2.0 -0.0	18.4
		13"	330 ±2	2.0 +0.5 -0	13 +0.5 -0.2	20.5 ±0.2	100 ±2	12.4 +2.0 -0.0	18.4

# **Tape Leader and Trailer Specifications**

