

# TO252 (DPAK)

#### PACKAGE INFORMATION

#### **Mechanical Data**

- Surface Mount Package
- Case Material: Molded Plastic, UL Flammability Rating 94V-0
- Terminals: Finish Matte Tin Plated Leads, Solderable per
- MIL-STD-202, Method 208 🔞
- Weight: 0.33 grams (Approximate)
- Max Soldering Temperature +260°C for 30 secs as per JEDEC J-STD-020

#### **Package Outline Dimensions**



Top View



TO252 (DPAK)						
Dim	Min	Max	Тур			
Α	2.19	2.39	2.29			
A1	0.00	0.13	0.08			
A2	0.97	1.17	1.07			
b	0.64	0.88	0.783			
b2	0.76	1.14	0.95			
b3	5.21	5.46	5.33			
С	0.45	0.58	0.531			
D	6.00	6.20	6.10			
D1	5.21	-	-			
е	-	-	2.286			
Е	6.45	6.45 6.70 6				
E1	4.32	-	-			
Н	9.40	10.41	9.91			
L	1.40	1.78	1.59			
L3	0.88	1.27	1.08			
L4	0.64	1.02	0.83			
а	0°	10°	-			
All Dimensions in mm						

## **Suggested Pad Layout**



Dimensions	Value (in mm)		
С	4.572		
Х	1.060		
X1	5.632		
Y	2.600		
Y1	5.700		
Y2	10.700		

- Note: The suggested land pattern dimensions have been provided for reference only, as actual pad layouts may vary depending on application. These dimensions may be modified based on user equipment capability or fabrication criteria. A more robust pattern may be desired for wave soldering and is calculated by adding 0.2 mm to the 'Z' dimension. For further information, please reference document IPC-7351A, Naming Convention for Standard SMT Land Patterns, and for International grid details, please see document IEC, Publication 97.
- 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.

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# **Minimum Packing Quantity**

	Quantity	Quantity Tape Width Part Num				
Tube	80	_	_			
13" Reel	2,500	16mm	-13, TC			
Note: Deckage quantities given are for minimum peckaging quantity only not minimum order quantity						

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.

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

### **Device Tape Orientation**



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)	
16mm	B1	12.1 max.	F	7.5±0.10	P2	2.0±0.10	
	D	1.5+0.10 -0.0	к	3.7 max.	t	0.40 max.	
	D1	1.4 min.	Р	8.0±0.10	w	16±0.30	
	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.					



# Embossed Carrier Tape Specifications (Continued)



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



## **Maximum Component Movement in Tape Pocket**





# **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)
16mm	7"	178 ±2	2.0 +0.5 -0	13 +0.5 -0.2	20.5 ±0.2	55 ±5	16.4 +2.0 -0.0	22.4
	13"	330 ±2	2.0 +0.5 -0	13 +0.5 -0.2	20.5 ±0.2	100 ±2	16.4 +2.0 -0.0	22.4

# Tape Leader and Trailer Specifications



Note: There shall be a leader of at least 230mm which may consist of carrier tape and/or cover tape or a start tape followed by at least 160mm of empty carrier tape sealed with cover tape.

Note: There shall be a trailer of at least 160mm of empty carrier tape sealed with cover tape. The entire carrier tape must release from the reel hub as the last portion of the tape unwinds from the reel without damage to the carrier tape and the remaining components in the cavities.