



## PASSIVE SMD

Surface Mount Device - 2 Terminal

Rectangular Passive Components  
(mostly resistors and capacitors)

01005 0.4 mm x 0.2 mm	·	] Cannot be placed by some assembly manufacturers.
0201 0.6 mm x 0.3 mm	·	
0402 1.0 mm x 0.5 mm	·	
0603 1.6mm x 0.8	·	
0805 2.0 mm x 1.25 mm	·	
1008 2.5 mm x 2.0 mm	·	
1206 3.2 mm x 1.6 mm	·	
1210 3.2 mm x 2.5 mm	·	
1806 4.5 mm x 1.6 mm	·	
1812 4.5 mm x 3.2 mm	·	
2010 5.0 mm x 2.5 mm	·	
2512 6.4 mm x 3.2 mm	·	
2920 7.4 mm x 5.1 mm	·	



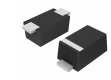
## TANTALUM CAPACITORS

	Top	Side
0805 EIA 2012-12 2.0 mm x 1.3 mm x 1.2 mm	·	·
<b>TANT - A</b>		
1206 EIA 3216-10 3.2 mm x 1.6 mm x 1.0 mm	·	·
1206 EIA 3216-12 3.2 mm x 1.6 mm x 1.2 mm	·	·
1206 EIA 3216-18 3.2 mm x 1.6 mm x 1.8 mm	·	·
<b>TANT - B</b>		
1411 EIA 3528-12 3.5 mm x 2.8 mm x 1.2 mm	·	·
1411 EIA 3528-21 3.5 mm x 2.8 mm x 2.1 mm	·	·
<b>TANT - C</b>		
2412 EIA 6032-15 6.0 mm x 3.2 mm x 1.5 mm	·	·
2412 EIA 6032-28 6.0 mm x 3.2 mm x 2.8 mm	·	·
<b>TANT - D</b>		
2917 EIA 7343-20 7.3 mm x 4.3 mm x 2.0 mm	·	·
2917 EIA 7343-31 7.3 mm x 4.3 mm x 3.1 mm	·	·
2917 EIA 7343-43 7.3 mm x 4.3 mm x 4.3 mm	·	·



## ALUMINUM CAPACITORS

3.3 mm x 3.3 mm	·
4.3 mm x 4.3 mm	·
5.3 mm x 5.3 mm	·
6.6 mm x 6.6 mm	·
8.3 mm x 8.3 mm	·
10.3 mm x 10.3 mm	·
13.0 mm x 13.0 mm	·
13.5 mm x 13.5 mm	·
17.0 mm x 17.0 mm	·
19.0 mm x 19.0 mm	·



## SOD Small Outline Diode

	Top	Side
SOD-723 1.4 x 0.6 x 0.59 mm	·	·
SOD-523 1.25 x 0.85 x 0.65 mm	·	·
SOD-323 (SC-90) 1.7 x 1.25 x 0.95 mm	·	·
SOD-128 5 x 2.7 x 1.1 mm	·	·
SOD-123 3.68 x 1.17 x 1.60 mm	·	·



## DO Diode Outline

	Top	Side
DO-214AA (SMB) 5.30 x 3.60 x 2.25 mm	·	·
DO-214AB (SMC) 7.95 x 5.90 x 2.25 mm	·	·
DO-214AC (SMA) 5.20 x 2.60 x 2.15 mm	·	·



## MELF Metal Electrode Leadless Face

	Top	Side
MicroMelf (MMU) 0102 2.2 mm x 1.1 mm x 1.1 mm	·	·
MiniMelf (MMA) 0204 3.6 mm x 1.4 mm x 1.4mm	·	·
Melf (MMB) 0207 5.8 mm x 2.2 mm x 2.2 mm	·	·



















## Component Sizing Chart

Dimensions shown to scale on 8.5x14in paper

































### SOT

Small Outline Transistor  
Outline Represents Component Body Without Leads

	Top	Side	
SOT-23 (SC-59, TO-236-3) 2.9 mm × 1.3 × 1.3			
SOT-323 (SC-70) 2 mm × 1.25 mm × 0.95 mm			
SOT-416 (SC-75) 1.6 mm × 0.8 mm × 0.8 mm			 3 Terminal
SOT-663 1.6 mm × 1.6 mm × 0.55 mm			
SOT-723 1.2 mm × 0.8 mm × 0.5 mm			
SOT-883 (SC-101) 1 mm × 0.6 mm × 0.5 mm			
<hr/>			
	Top	Side	
SOT-223 6.7 mm × 3.7 mm × 1.8 mm			 4 Terminal
SOT-89 4.5 mm × 2.5 mm × 1.5 mm			

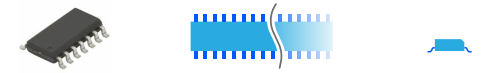
### SOT (Continued)

	Top	Side	
SOT-23-5 (SOT-25, SC-74A) 2.9 mm × 1.3			
SOT-353 (SC-88A) 2 mm × 1.25 mm × 0.95 mm			
SOT-891 1.05 mm × 1.05 mm × 0.5 mm			 5 Terminal
SOT-953 1 mm × 1 mm × 0.5 mm			
SOT-963 1 mm × 1 mm × 0.5 mm			
SOT-1115 0.9 mm × 1 mm × 0.35 mm			

	Top	Side	
SOT-1202 1 mm × 1 mm × 0.35 mm			
SOT-23-6 (SOT-26, SC-74) 2.9 mm × 1.3 × 1.3			
SOT-363 (SC-88, SC-70-6) 2 mm × 1.25 mm × 0.95 mm			 6 Terminal
SOT-563 1.6 mm × 1.2 mm × 0.6 mm			
SOT-665 1.6 mm × 1.6 mm × 0.55 mm			
SOT-666 1.6 mm × 1.6 mm × 0.55 mm			
SOT-886 1.05 mm × 1.05 mm × 0.5 mm			
SOT-886 1 mm × 1.45 mm × 0.5 mm			

### HIGH PIN COUNT

SOIC/SOP  
Small Outline Integrated Circuit  
Small Outline Package  
Multiple Size Configurations



DIP  
Dual Inline Package  
Multiple Lengths x 6.4 mm x 3.3 mm



BGA  
Ball Grid Array  
Multiple Size Configurations



QFN  
Quad Flat No-Leads  
Multiple Size Configurations



QFP  
Quad Flat Package  
Multiple Size Configurations

