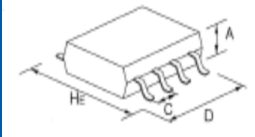
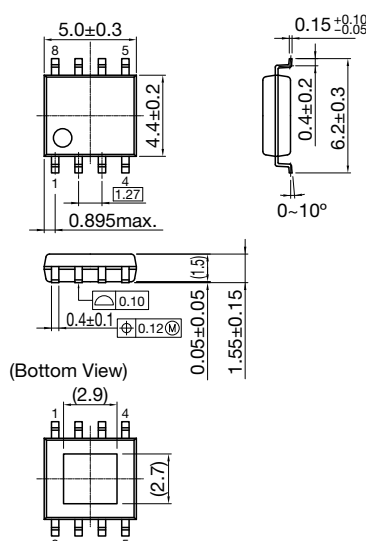
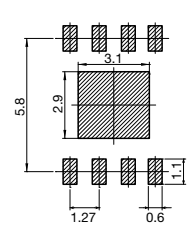
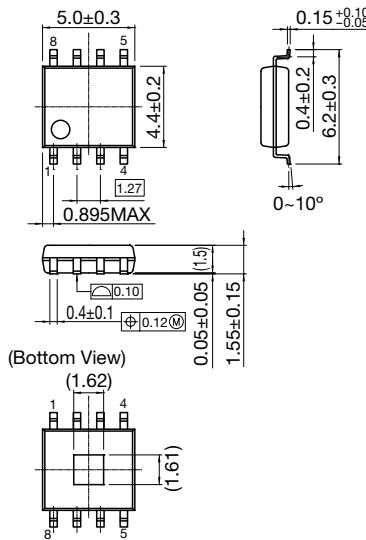
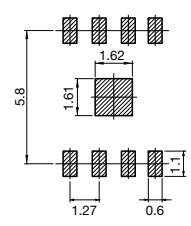


# Package Line-up



Package Type	Pin Count	Package Name	Package Size (mm)			Pin Pitch (mm)	
			He	D	A	C	
Lead-through Type	3	TO-92A	5.40	3.80	7.50	2.50	
Flat Lead Type	6	SON-6A	3.00	1.60	0.80	0.50	
	6	SON-6B	3.00	1.60	0.80	0.50	
	6	SON-6C	2.00	1.60	0.55	0.50	
	6	SON-6D	3.00	2.90	0.80	0.95	
	5	SOT89-5A	4.25	4.50	1.50	1.50	
Gullwing Type	4	SC-82ABA	2.10	2.00	0.95	1.30	
	4	SC-82ABB	2.10	2.00	0.90	1.30	
	6	SC-88A	2.10	2.00	0.90	0.65	
	3	SOT-23A	2.80	2.90	1.15	1.90	
	5	SOT-25A	2.80	2.90	1.15	0.95	
	6	SOT-26A	2.80	2.90	1.15	0.95	
	6	SOT-26B	2.80	2.90	1.15	0.95	
	7	SOP-7B	6.20	5.00	1.55	1.27	
	8	SOP-8C	6.20	5.20	1.55	1.27	
	8	SOP-8D	6.20	5.00	1.55	1.27	
	10	SOP-10A	6.20	5.00	1.55	1.00	
	16	SOP-16B	6.20	10.20	1.55	1.27	
	28	SOP-28B	9.90	17.60	1.85	1.27	
	8	SSOP-8A	3.10	2.00	0.75	0.50	
	24	SSOP-24B	7.80	10.20	1.90	0.80	
	34	SSOP-34A	9.90	17.60	1.85	1.00	
	36	SSOP-36A	7.80	15.00	1.90	0.80	
	42	SSOP-42A	9.90	17.60	1.85	0.80	
	16	TSOP-16A	6.40	5.00	1.10	0.65	
	16	TSOP-16B	6.40	5.00	1.10	0.65	
	16	TSOP-16D	6.40	5.00	1.10	0.65	
	20	TSOP-20A	6.40	6.50	1.10	0.65	
	20	TSOP-20B	6.40	6.50	1.10	0.65	
	20	TSOP-20D	6.40	6.50	1.10	0.65	
	20	TSOP-20E	6.40	6.50	1.10	0.65	
	20	TSOP-20F	6.40	6.50	1.20	0.65	
	8	VSOP-8B	4.00	2.90	1.30	0.65	
	8	VSOP-8C	4.00	2.95	1.30	0.65	
	8	VSOP-8D	4.00	2.80	1.30	0.65	
	8	HSOP-8A	6.20	5.00	1.55	1.27	
	8	HSOP-8C	6.20	5.00	1.55	1.27	
	28	HSOP-28A	9.90	18.60	2.30	0.80	
	28	HSOP-28C	9.90	17.60	1.90	0.80	
	36	HSOP-36A	9.90	17.60	1.90	0.80	
	64	QFP-64E	16.00	16.00	1.20	0.80	
	80	QFP-80D	17.20	23.20	3.22	0.80	
	100	QFP-100A	17.20	23.20	3.22	0.65	
	3	TO-252C	9.90	6.60	2.30	2.30	
	5	TO-252-5A	9.90	6.60	2.30	1.27	
	Non-Lead Type	4	PLP-4A	1.00	1.00	0.60	0.65
4		PLP-4B	1.60	1.20	0.60	0.60	
6		PLP-6A	2.00	1.80	0.60	0.50	
10		PLP-10A	2.50	2.70	0.60	0.50	
16		SQFN-16A	3.00	3.00	0.75	0.50	
32		SQFN-32A	5.00	5.00	0.75	0.50	
4		SSON-4B	1.40	1.10	0.55	0.50	
6		SSON-6A	2.00	1.80	0.75	0.50	
6		SSON-6E	1.60	1.80	0.55	0.50	
6		SSON-6J	1.40	1.40	0.55	0.50	
6		SSON-6L	2.00	2.00	0.75	0.65	
8		SSON-8B	2.30	2.30	0.75	0.5	
8		SSON-8C	3.00	3.00	0.55	0.65	
10		SSON-10A	2.50	2.70	0.60	0.50	
20		WLCSP-20A	1.936	1.936	0.345	0.40	
25		WLCSP-25A	1.936	1.936	0.345	0.40	
48		WLCSP-48A	3.47	3.47	0.40	0.50	

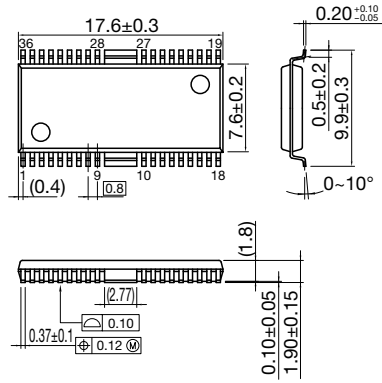
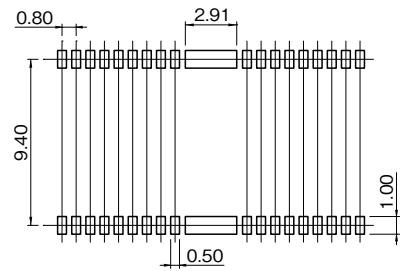
# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>HSOP-8A</b></p>	 <p>Top View: <math>5.0 \pm 0.3</math>, <math>4.4 \pm 0.2</math>, <math>0.895 \text{max.}</math>, <math>1.27</math>, <math>0.4</math>, <math>0.15 \pm 0.10 / -0.05</math>, <math>0.4 \pm 0.2</math>, <math>6.2 \pm 0.3</math>, <math>0 \sim 10^\circ</math></p> <p>Side View: <math>0.15 \pm 0.10 / -0.05</math>, <math>0.4 \pm 0.2</math>, <math>6.2 \pm 0.3</math>, <math>0 \sim 10^\circ</math></p> <p>Bottom View: <math>0.4 \pm 0.1</math>, <math>\phi 0.12</math>, <math>0.05 \pm 0.05</math>, <math>1.55 \pm 0.15</math>, <math>0.10</math>, <math>0.05 \pm 0.05</math>, <math>1.55</math>, (Bottom View) <math>(2.9)</math>, <math>(2.7)</math></p>	 <p>Land Pattern: <math>5.8</math>, <math>2.9</math>, <math>3.1</math>, <math>1.27</math>, <math>0.6</math>, <math>1.1</math></p>
<p><b>HSOP-8C</b></p>	 <p>Top View: <math>5.0 \pm 0.3</math>, <math>4.4 \pm 0.2</math>, <math>0.895 \text{MAX}</math>, <math>1.27</math>, <math>0.4</math>, <math>0.15 \pm 0.10 / -0.05</math>, <math>0.4 \pm 0.2</math>, <math>6.2 \pm 0.3</math>, <math>0 \sim 10^\circ</math></p> <p>Side View: <math>0.15 \pm 0.10 / -0.05</math>, <math>0.4 \pm 0.2</math>, <math>6.2 \pm 0.3</math>, <math>0 \sim 10^\circ</math></p> <p>Bottom View: <math>0.4 \pm 0.1</math>, <math>\phi 0.12</math>, <math>0.05 \pm 0.05</math>, <math>1.55 \pm 0.15</math>, <math>0.10</math>, <math>0.05 \pm 0.05</math>, <math>1.55</math>, (Bottom View) <math>(1.62)</math>, <math>(1.61)</math></p>	 <p>Land Pattern: <math>5.8</math>, <math>1.62</math>, <math>1.61</math>, <math>1.27</math>, <math>0.6</math>, <math>1.1</math></p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>HSOP-28A</b></p>	<p>Top view dimensions: 18.6±0.3, 7.5±0.2, 1.6max., 0.8, 0.8, 8, 14, 28, 22, 21, 15.</p> <p>Side view dimensions: 0.15<sup>+0.10</sup>/<sub>-0.05</sub>, 0.5±0.2, 9.9±0.3, 0~10°.</p> <p>Lead view dimensions: (2.2), 0.1±0.05, 2.3±0.15, (5.15), 0.10, 0.35±0.05, Φ0.12.</p>	<p>Pin dimensions: 0.5, 0.8, 5.15, 1.2, 9.1, 3.2.</p>
<p><b>HSOP-28C</b></p>	<p>Top view dimensions: 17.6±0.3, 7.6±0.2, 1.1max., 0.8, 0.8, 8, 14, 28, 22, 21, 15.</p> <p>Side view dimensions: 0.20<sup>+0.10</sup>/<sub>-0.05</sub>, 0.5±0.2, 9.9±0.3, 0~10°.</p> <p>Lead view dimensions: (1.8), 0.10±0.05, 1.90±0.15, (5.15), 0.10, 0.35±0.10, Φ0.12.</p>	<p>Pin dimensions: 0.5, 0.8, 5.15, 1.2, 9.1, 3.2.</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>HSOP-36A</b></p>	 <p>Top view dimensions: 17.6±0.3, 7.6±0.2, 0.20<sup>+0.10</sup>/<sub>-0.05</sub>, 0.5±0.2, 9.9±0.3, 0-10°</p> <p>Side view dimensions: 0.10±0.05, 1.90±0.15, 1.8, 0.37±0.1, 0.10, 0.12, 2.77</p> <p>Lead view dimensions: 0.4, 0.8, 1, 9, 10, 18, 36, 28, 27, 19</p>	 <p>Land pattern dimensions: 0.80, 2.91, 9.40, 1.00, 0.50</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>PLP-4A</p>	<p>Top View: 1.00±0.05 (width), 1.00±0.05 (height), pins 1, 2, 3, 4.</p> <p>Side View: 0.60MAX (height), 0.07MAX (thickness), 0.05 (lead height).</p> <p>Bottom View: 0.25±0.05 (width), 0.65 (width), 0.48±0.05 (width), 45° (angle), 0.32±0.05 (width), 0.07±0.05 (width), 0.25±0.05 (width), 0.05 (hole diameter).</p>	<p>Land Pattern Dimensions: 0.44, 0.25, 0.18, 0.25, 0.32, 0.25, 0.65, 0.55, 0.57, 1.46.</p>
<p>PLP-4B</p>	<p>Top View: 1.20±0.05 (width), 1.60±0.05 (height), pins 1, 2, 3, 4.</p> <p>Side View: 0.6MAX (height), (0.07) (thickness), 0.05 (lead height).</p> <p>Bottom View: 0.60 (width), (1.0) (width), (0.7) (width), 0.20±0.05 (width), 0.30±0.05 (width), 0.05 (hole diameter).</p>	<p>Land Pattern Dimensions: 0.45, 0.60, 0.70, 1.00, 2.10, 0.30.</p>

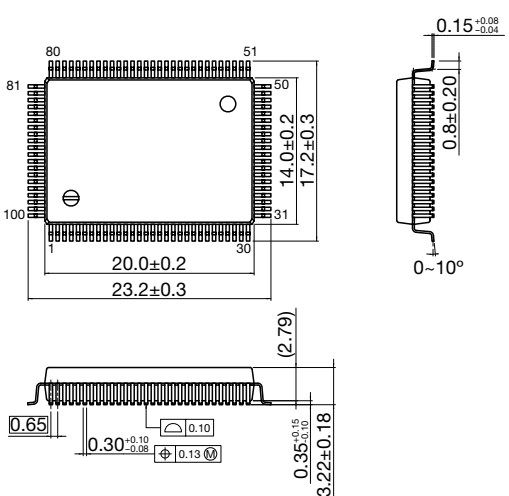
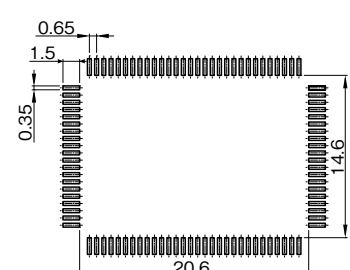
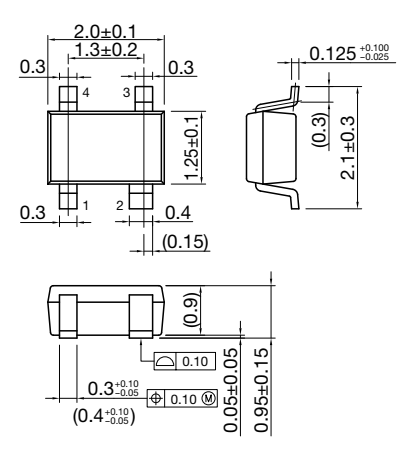
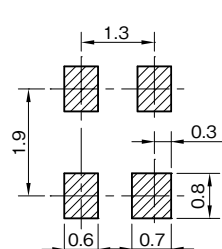
# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>PLP-6A</p>	<p>Dimensional drawing of PLP-6A package showing top, side, and bottom views. Key dimensions include: 1.80±0.05, 2.00±0.05, 0.6max., 0.30±0.05, (0.1), (1.6), (1.0), 0.25±0.05, 0.20±0.05, 0.05, 0.05, 0.05.</p>	<p>Recommended land pattern for PLP-6A showing dimensions: 0.50, 1.60, 1.00, 1.95, 2.40, 0.45, 0.35, 0.25.</p>
<p>PLP-10A</p>	<p>Dimensional drawing of PLP-10A package showing top, side, and bottom views. Key dimensions include: 2.70±0.05, 2.50±0.05, 0.6max., 0.30±0.05, 0.10±0.05, 0.25±0.05, (2.30), 1.50, 0.20±0.05, 0.05, 0.05, 0.05, Ø0.50.</p>	<p>Recommended land pattern for PLP-10A showing dimensions: 0.50, 2.30, 1.50, 2.40, 2.90, 0.35, 0.25.</p>

# Package

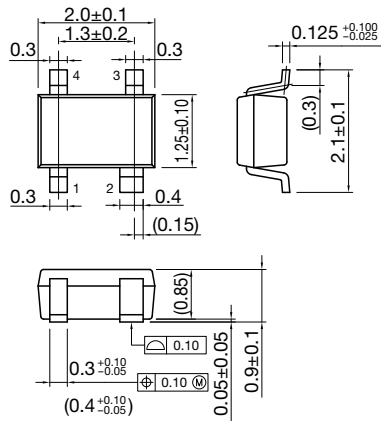
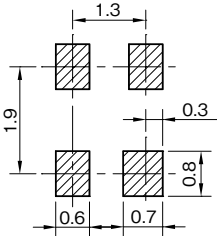
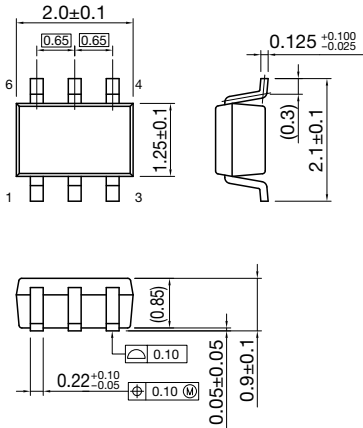
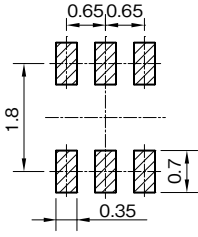
Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>QFP-64E</b></p>	<p>Top view dimensions: 14.0±0.2, 16.0±0.3, 14.0±0.2, 16.0±0.3. Pin counts: 46, 33, 32, 17, 16, 1. Lead height: 0.15<sup>+0.10</sup>/<sub>-0.06</sub>. Lead angle: 0~10°. Lead thickness: 0.6±0.2. Detail view shows lead width 0.8, lead thickness 0.37<sup>+0.10</sup>/<sub>-0.07</sub>, and a diameter of 0.1±0.05.</p>	<p>Land pattern dimensions: 14.6, 14.6, 0.8, 1.3, 0.5.</p>
<p><b>QFP-80D</b></p>	<p>Top view dimensions: 20.0±0.20, 23.2±0.30, 14.0±0.20, 17.2±0.30. Pin counts: 64, 41, 40, 25, 24, 1, 80. Lead height: 0.15<sup>+0.10</sup>/<sub>-0.02</sub>. Lead angle: 0~10°. Lead thickness: 0.8±0.20. Detail view shows lead width 0.8, lead thickness 0.38±0.08, and a diameter of 0.35<sup>+0.15</sup>/<sub>-0.10</sub>.</p>	<p>Land pattern dimensions: 20.4, 14.4, 0.8, 1.5, 0.5.</p>

# Package

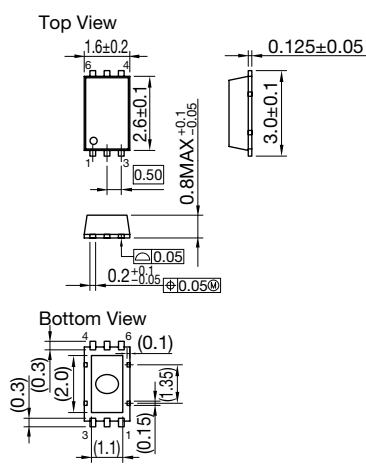
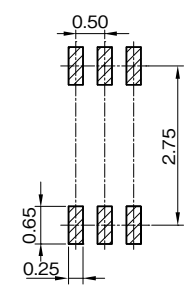
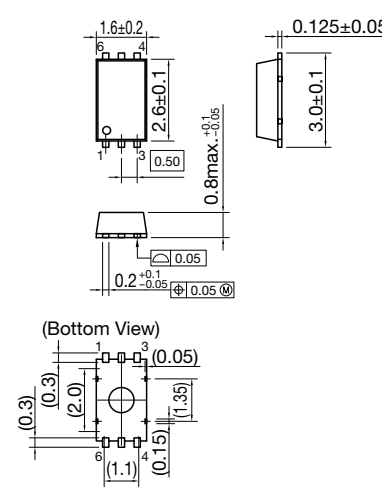
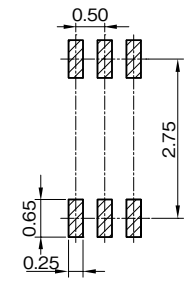
Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>QFP-100A</b></p>	 <p>Top view dimensions: 20.0±0.2, 23.2±0.3, 14.0±0.2, 17.2±0.3, 0.65, 0.30<sup>+0.10/-0.08</sup>, 0.10, 0.13, 0.35<sup>+0.15/-0.10</sup>, 3.22±0.18, (2.79), 0.65, 0.10, 0.13, 0.35<sup>+0.15/-0.10</sup>, 3.22±0.18.</p> <p>Side view dimensions: 0.15<sup>+0.08/-0.04</sup>, 0.8±0.20, 0-10°.</p>	 <p>Land pattern dimensions: 0.65, 1.5, 0.35, 20.6, 14.6.</p>
<p><b>SC-82ABA</b></p>	 <p>Top view dimensions: 2.0±0.1, 1.3±0.2, 0.3, 0.3, 1.25±0.1, 0.3, 0.3, 0.4, (0.15), 0.9, 0.05±0.05, 0.95±0.15, 0.3<sup>+0.10/-0.05</sup>, (0.4<sup>+0.10/-0.05</sup>), 0.10, 0.10.</p> <p>Side view dimensions: 0.125<sup>+0.100/-0.025</sup>, (0.3), 2.1±0.3.</p>	 <p>Land pattern dimensions: 1.3, 1.9, 0.3, 0.8, 0.6, 0.7.</p>



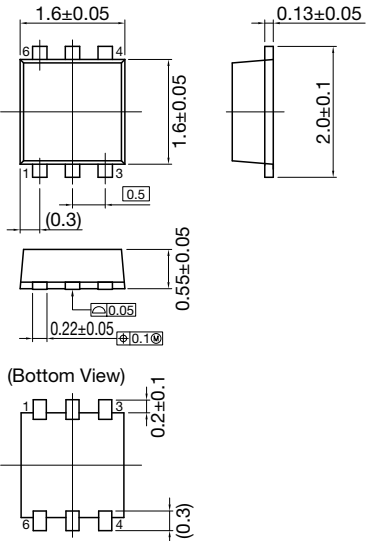
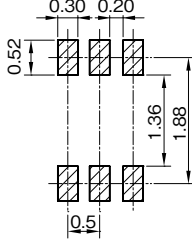
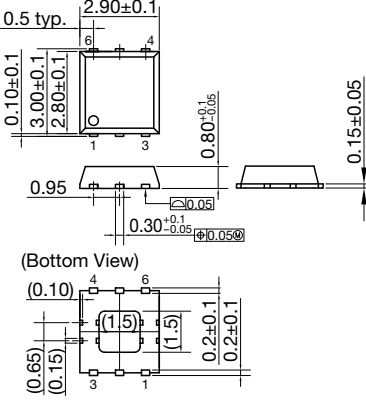
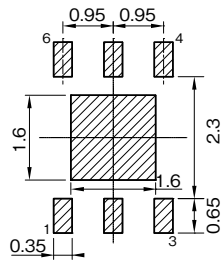
# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>SC-82ABB</b></p>	 <p>Top view dimensions: <math>2.0 \pm 0.1</math> (total width), <math>1.3 \pm 0.2</math> (pitch), <math>0.3</math> (lead width), <math>1.25 \pm 0.10</math> (body length), <math>0.3</math> (lead offset), <math>0.3</math> (lead spacing), <math>0.4</math> (lead length), <math>(0.15)</math> (lead thickness).</p> <p>Side view dimensions: <math>0.125^{+0.100}_{-0.025}</math> (lead height), <math>(0.3)</math> (lead angle), <math>2.1 \pm 0.1</math> (total height).</p> <p>Bottom view dimensions: <math>0.3^{+0.10}_{-0.05}</math> (lead diameter), <math>(0.4^{+0.10}_{-0.05})</math> (lead diameter), <math>0.05 \pm 0.05</math> (lead diameter), <math>0.9 \pm 0.1</math> (lead diameter), <math>(0.85)</math> (lead diameter), <math>0.10</math> (lead diameter).</p>	 <p>Land pattern dimensions: <math>1.3</math> (pitch), <math>1.9</math> (pitch), <math>0.3</math> (lead width), <math>0.6</math> (lead width), <math>0.7</math> (lead width), <math>0.8</math> (lead width).</p>
<p><b>SC-88A</b></p>	 <p>Top view dimensions: <math>2.0 \pm 0.1</math> (total width), <math>0.65</math> (pitch), <math>0.65</math> (pitch), <math>1.25 \pm 0.1</math> (body length), <math>0.3</math> (lead width), <math>0.3</math> (lead spacing).</p> <p>Side view dimensions: <math>0.125^{+0.100}_{-0.025}</math> (lead height), <math>(0.3)</math> (lead angle), <math>2.1 \pm 0.1</math> (total height).</p> <p>Bottom view dimensions: <math>0.22^{+0.10}_{-0.05}</math> (lead diameter), <math>(0.85)</math> (lead diameter), <math>0.05 \pm 0.05</math> (lead diameter), <math>0.9 \pm 0.1</math> (lead diameter), <math>0.10</math> (lead diameter).</p>	 <p>Land pattern dimensions: <math>0.65</math> (pitch), <math>0.65</math> (pitch), <math>1.8</math> (pitch), <math>0.35</math> (lead width), <math>0.7</math> (lead width).</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p style="text-align: center;"><b>SON-6A</b></p>	 <p>Top View</p> <p>Bottom View</p>	
<p style="text-align: center;"><b>SON-6B</b></p>	 <p>Top View</p> <p>(Bottom View)</p>	

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p style="text-align: center;"><b>SON-6C</b></p>	 <p>Top View: <math>1.6 \pm 0.05</math> (width), <math>1.6 \pm 0.05</math> (height), <math>0.5</math> (pitch), <math>(0.3)</math> (lead width), <math>0.13 \pm 0.05</math> (lead height), <math>2.0 \pm 0.1</math> (total height).</p> <p>Side View: <math>0.55 \pm 0.05</math> (height), <math>0.22 \pm 0.05</math> (lead thickness), <math>\phi 0.10</math> (lead diameter).</p> <p>Bottom View: <math>0.2 \pm 0.1</math> (lead width), <math>(0.3)</math> (pitch).</p>	 <p>Land Pattern: <math>0.30</math> (pad width), <math>0.20</math> (pad width), <math>0.52</math> (pitch), <math>1.36</math> (total width), <math>1.88</math> (total width), <math>0.5</math> (pitch).</p>
<p style="text-align: center;"><b>SON-6D</b></p>	 <p>Top View: <math>0.5</math> typ. (lead length), <math>2.90 \pm 0.1</math> (width), <math>0.10 \pm 0.1</math> (lead width), <math>3.00 \pm 0.1</math> (pitch), <math>2.80 \pm 0.1</math> (pitch), <math>0.80 \pm 0.05</math> (height), <math>0.15 \pm 0.05</math> (lead height).</p> <p>Side View: <math>0.95</math> (height), <math>0.30 \pm 0.05</math> (lead thickness), <math>\phi 0.05</math> (lead diameter).</p> <p>Bottom View: <math>(0.10)</math> (lead width), <math>(1.5)</math> (pitch), <math>(1.5)</math> (pitch), <math>0.2 \pm 0.1</math> (lead width), <math>0.2 \pm 0.1</math> (lead width).</p>	 <p>Land Pattern: <math>0.95</math> (pad width), <math>0.95</math> (pad width), <math>1.6</math> (total width), <math>2.3</math> (total width), <math>0.65</math> (total width), <math>0.35</math> (pitch), <math>1.6</math> (total width).</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p style="text-align: center;"><b>SOP-7B</b></p>		
<p style="text-align: center;"><b>SOP-8C</b></p>		

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOP-8D</p>		
<p>SOP-10A</p>		

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOP-16B</p>		
<p>SOP-28B</p>		

for package

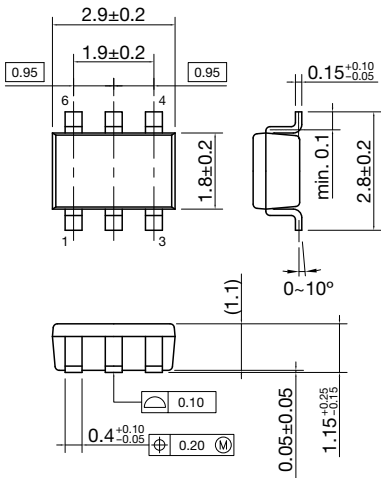
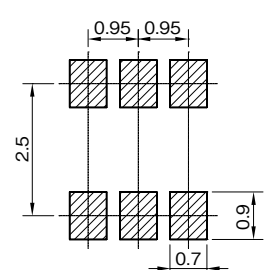
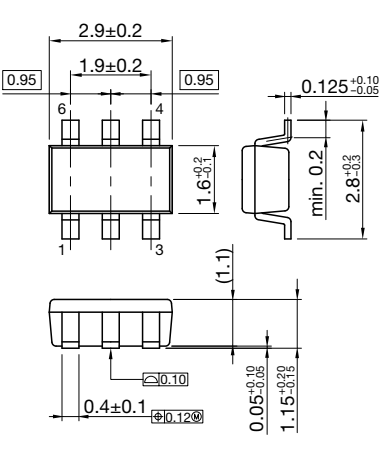
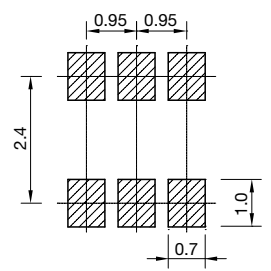
**Package**

# Package

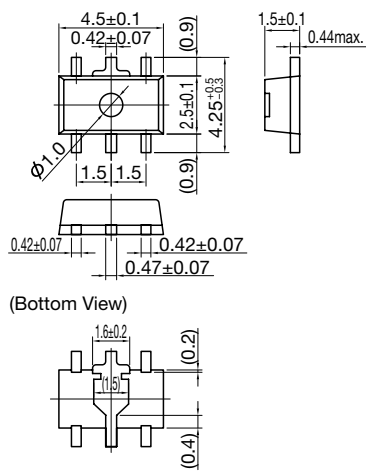
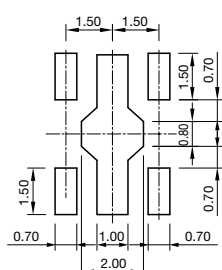
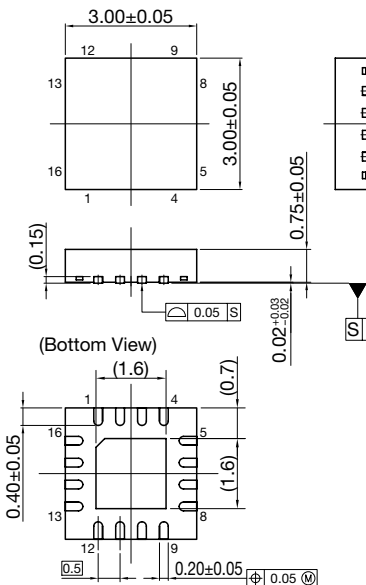
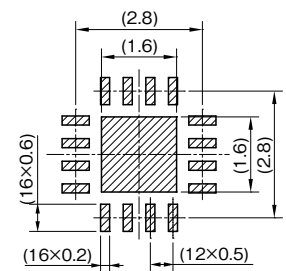
Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOT-23A</p>	<p>Top view dimensions: 2.9±0.2, 1.9, 0.95, 0.95, 1.6±0.2. Pin 1, 2, 3. Lead thickness: 0.15±0.10. Lead length: min. 0.2, 2.8±0.2. Bottom view dimensions: (1.1), 0.4±0.10, 0.05±0.10, 1.15±0.25.</p>	<p>Land pattern dimensions: Pad width 0.7, pad height 1.0, pad spacing 0.95, 0.95, total width 2.4.</p>
<p>SOT-25A</p>	<p>Top view dimensions: 2.9±0.2, 1.9±0.2, 0.95, 0.95, 1.6±0.2. Pin 1, 3, 4, 5. Lead thickness: 0.15±0.10. Lead length: min. 0.2, 2.8±0.2. Bottom view dimensions: (1.1), 0.4±0.10, 0.05±0.05, 1.15±0.25.</p>	<p>Land pattern dimensions: Pad width 0.7, pad height 1.0, pad spacing 0.95, 0.95, total width 2.4.</p>



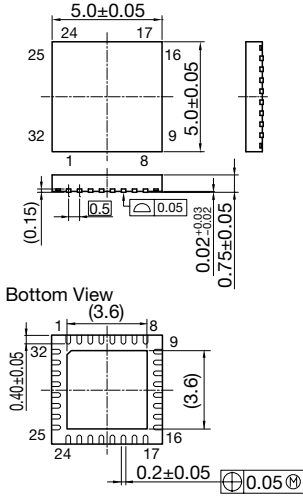
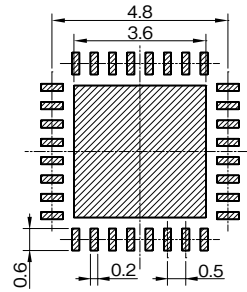
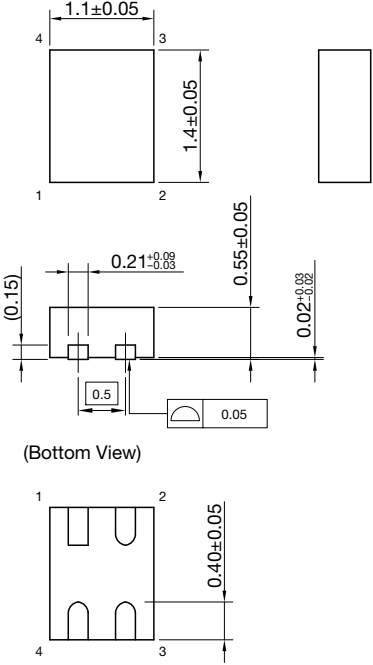
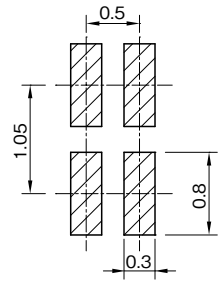
# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SOT-26A</p>		
<p>SOT-26B</p>		

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>SOT89-5A</b></p>	 <p>Top View: <math>4.5 \pm 0.1</math>, <math>0.42 \pm 0.07</math> (0.9), <math>2.5 \pm 0.1</math>, <math>4.25^{+0.3}_{-0.3}</math>, <math>\phi 1.0</math>, <math>1.5</math>, <math>1.5</math>, <math>0.9</math></p> <p>Side View: <math>1.5 \pm 0.1</math>, <math>0.44 \text{max.}</math></p> <p>Bottom View: <math>0.42 \pm 0.07</math>, <math>0.42 \pm 0.07</math>, <math>0.47 \pm 0.07</math></p> <p>(Bottom View): <math>1.6 \pm 0.2</math> (0.2), <math>0.4</math></p>	 <p>Land Pattern Dimensions: <math>1.50</math>, <math>1.50</math>, <math>1.50</math>, <math>0.70</math>, <math>0.80</math>, <math>0.70</math>, <math>1.00</math>, <math>2.00</math>, <math>0.70</math></p>
<p><b>SQFN-16A</b></p>	 <p>Top View: <math>3.00 \pm 0.05</math>, <math>12</math>, <math>9</math>, <math>13</math>, <math>8</math>, <math>3.00 \pm 0.05</math>, <math>16</math>, <math>5</math>, <math>1</math>, <math>4</math></p> <p>Side View: <math>0.15</math>, <math>0.75 \pm 0.05</math>, <math>0.05</math> S, <math>0.02^{+0.02}_{-0.02}</math>, S</p> <p>(Bottom View): <math>0.40 \pm 0.05</math>, <math>16</math>, <math>13</math>, <math>12</math>, <math>9</math>, <math>8</math>, <math>5</math>, <math>4</math>, <math>1</math>, <math>1.6</math>, <math>0.7</math>, <math>1.6</math>, <math>0.20 \pm 0.05</math>, <math>\phi 0.05</math> (M)</p>	 <p>Land Pattern Dimensions: <math>(2.8)</math>, <math>(1.6)</math>, <math>(16 \times 0.6)</math>, <math>(16 \times 0.2)</math>, <math>(12 \times 0.5)</math>, <math>(1.6)</math>, <math>(2.8)</math></p>

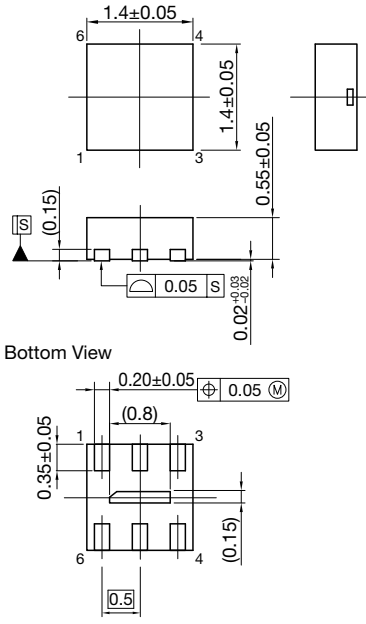
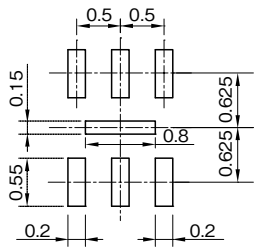
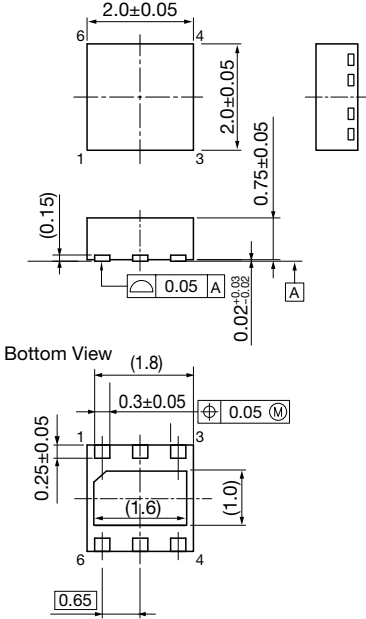
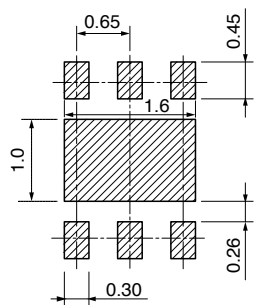
# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SQFN-32A</p>	 <p>Top View: 5.0±0.05, 24, 17, 25, 16, 32, 9, 5.0±0.05, 1, 8</p> <p>Side View: (0.15), 0.5, 0.05, 0.02±0.03, 0.75±0.05</p> <p>Bottom View: (3.6), 1, 8, 9, 0.40±0.05, 32, 25, 24, 17, 16, 0.2±0.05, 0.05</p>	 <p>4.8, 3.6, 0.6, 0.2, 0.5</p>
<p>SSON-4B</p>	 <p>Top View: 1.1±0.05, 4, 3, 1, 2, 1.4±0.05</p> <p>Side View: (0.15), 0.21±0.03, 0.55±0.05, 0.02±0.03, 0.5, 0.05</p> <p>(Bottom View): 1, 2, 4, 3, 0.40±0.05</p>	 <p>0.5, 1.05, 0.8, 0.3</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSON-6A</p>		
<p>SSON-6E</p>		

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSON-6J</p>	 <p>Top View: 1.4±0.05 (width), 1.4±0.05 (height), pins 1, 3, 4, 6.</p> <p>Side View: 0.55±0.05 (height), 0.02<sup>+0.02</sup><sub>-0.02</sub> (lead height), 0.05 (lead width), 0.15 (pitch).</p> <p>Bottom View: 0.20±0.05 (pin width), 0.05 (pin spacing), 0.35±0.05 (total width), 0.8 (pin pitch), 0.15 (lead length), 0.5 (lead width).</p>	 <p>Land Pattern: 0.5 (pad width), 0.5 (pad spacing), 0.15 (pad height), 0.8 (lead length), 0.625 (total width), 0.2 (lead width).</p>
<p>SSON-6L</p>	 <p>Top View: 2.0±0.05 (width), 2.0±0.05 (height), pins 1, 3, 4, 6.</p> <p>Side View: 0.75±0.05 (height), 0.02<sup>+0.02</sup><sub>-0.02</sub> (lead height), 0.05 (lead width), 0.15 (pitch).</p> <p>Bottom View: 1.8 (total width), 0.3±0.05 (pin width), 0.05 (pin spacing), 0.25±0.05 (total height), 1.6 (pin pitch), 1.0 (lead length), 0.65 (lead width).</p>	 <p>Land Pattern: 0.65 (pad width), 0.45 (pad height), 1.6 (lead length), 0.26 (lead width), 0.30 (lead spacing), 1.0 (total width).</p>

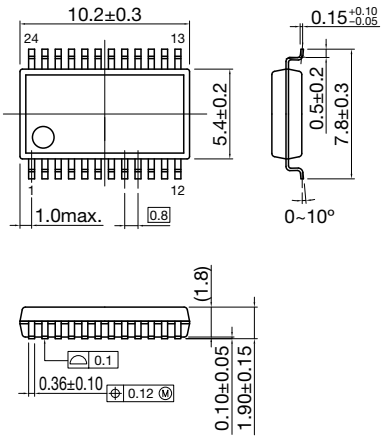
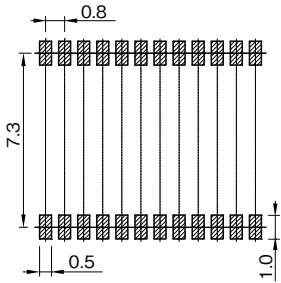
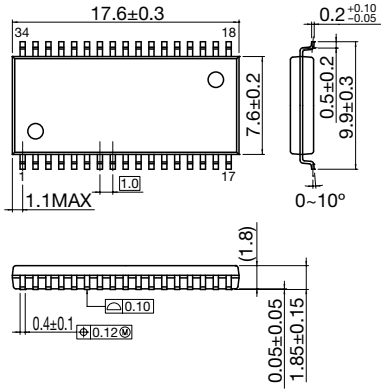
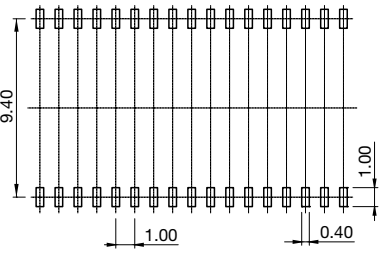
# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>SSON-8B</b></p>	<p>Top View: <math>2.30 \pm 0.05</math> mm (width), <math>2.30 \pm 0.05</math> mm (height). Pin 1 location.</p> <p>Side View: Pin height <math>0.15</math> mm, pin diameter <math>0.02 \pm 0.002</math> mm, total height <math>0.75 \pm 0.05</math> mm.</p> <p>Bottom View: Pin pitch <math>0.9</math> mm, pin width <math>0.40 \pm 0.05</math> mm, pin spacing tolerance <math>0.20 \pm 0.05</math> mm.</p>	<p>Pin pitch: <math>0.9</math> mm. Pin width: <math>0.5</math> mm. Pin spacing: <math>0.25</math> mm. Land width: <math>0.6</math> mm. Land spacing: <math>0.2</math> mm. Total land width: <math>2.1</math> mm.</p>
<p><b>SSON-8C</b></p>	<p>Top View: <math>3.00 \pm 0.10</math> mm (width), <math>3.00 \pm 0.10</math> mm (height). Pin 1 location.</p> <p>Side View: Pin height <math>0.15</math> mm, pin diameter <math>0.08</math> mm, total height <math>0.55 \pm 0.05</math> mm.</p> <p>Bottom View: Pin pitch <math>2.2</math> mm, pin width <math>0.035 \pm 0.005</math> mm, pin spacing tolerance <math>0.30 \pm 0.05</math> mm.</p>	<p>Pin pitch: <math>2.2</math> mm. Pin width: <math>0.65</math> mm. Pin spacing: <math>0.33</math> mm. Land width: <math>0.7</math> mm. Land spacing: <math>0.3</math> mm. Total land width: <math>2.8</math> mm.</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>SSON-10A</b></p>	<p>Top View: Overall width 2.7, pin pitch 0.5, pin width 0.15, lead length 0.55, pin diameter <math>\phi 0.02</math>. Pin positions 1, 5, 6, 10 are marked.</p> <p>Side View: Lead height 0.15, lead thickness 0.05, lead width 0.02.</p> <p>Bottom View: Pin pitch 0.3, pin width 0.1, lead length 0.25, lead thickness 0.2, lead width <math>\phi 0.05</math>. Pin positions 1, 5, 6, 10 are marked.</p>	<p>Land Pattern: Pad width 0.50, pad pitch 0.50, pad length 0.45, pad thickness 1.50, pad width at end 0.20, pad width at end 0.30.</p>
<p><b>SSOP-8A</b></p>	<p>Top View: Overall width <math>2.0 \pm 0.3</math>, pin pitch 0.5, pin width 0.25, lead length 0.7, lead thickness 0.1, lead width <math>\phi 0.1</math>. Pin positions 1, 4, 5, 8 are marked.</p> <p>Side View: Lead height 0.13, lead thickness MIN 0.1, lead width <math>3.1 \pm 0.3</math>, lead angle <math>0-10^\circ</math>.</p> <p>Bottom View: Pin pitch 0.25, pin width 0.2, lead length 0.75, lead thickness <math>0.05^{+0.10}_{-0.00}</math>, lead width <math>\phi 0.1</math>.</p>	<p>Land Pattern: Pad width 0.50, pad pitch 0.50, pad length 3.05, pad thickness 0.55, pad width at end 0.25.</p>

# Package

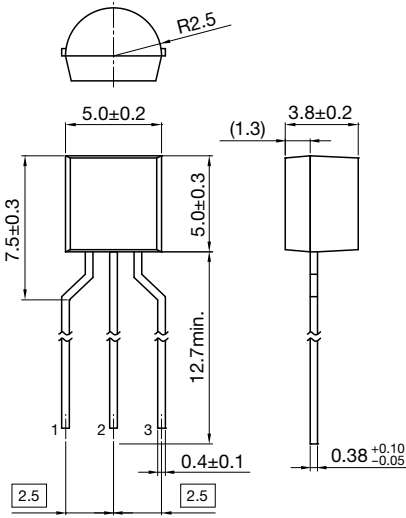
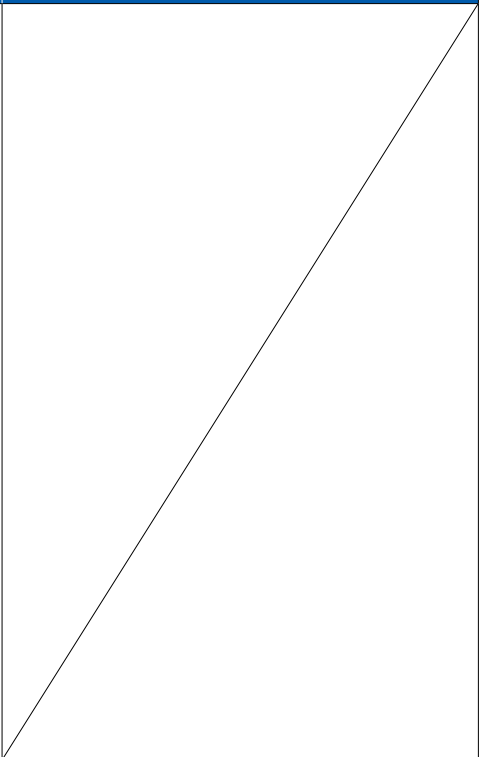
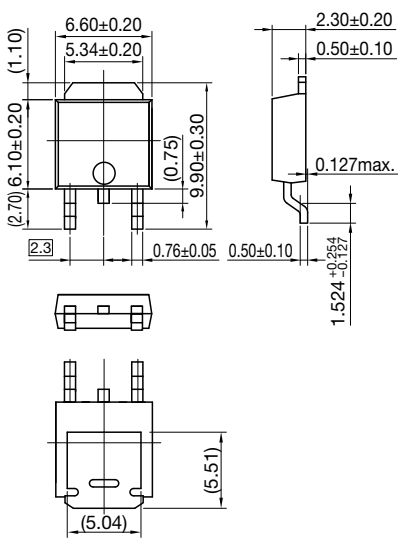
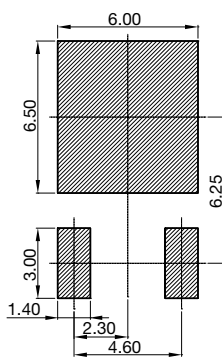
Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>SSOP-24B</b></p>		
<p><b>SSOP-34A</b></p>		



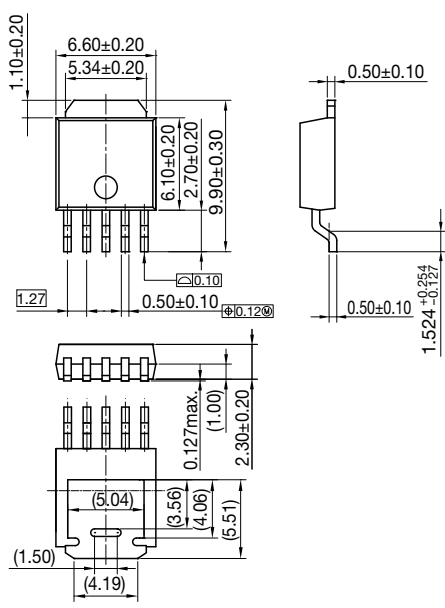
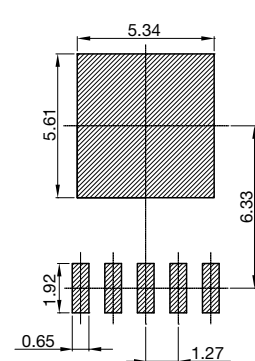
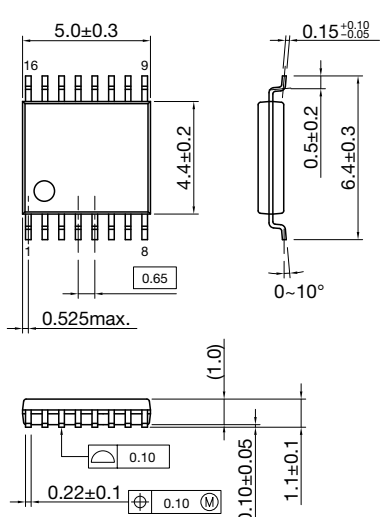
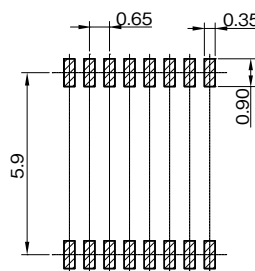
# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>SSOP-36A</p>	<p>Top view: 15.0±0.3, 36, 19, 18, 1.0max., 0.8</p> <p>Side view: 5.4±0.2, 0.15±0.10/-0.05, 0.5±0.2, 7.8±0.3, 0~10°</p> <p>End view: 1.8, 0.4±0.1, 0.10±0.05, 1.90±0.10</p>	<p>Land pattern dimensions: 0.8, 9.4, 0.5, 1.0</p>
<p>SSOP-42A</p>	<p>Top view: 17.6±0.3, 42, 23, 21, 1.1max., 0.8</p> <p>Side view: 7.6±0.2, 0.2±0.10/-0.05, 0.5±0.2, 9.9±0.3, 0~10°</p> <p>End view: 1.8, 0.35±0.10, 0.12, 0.1, 0.05±0.05, 1.85±0.15</p>	<p>Land pattern dimensions: 0.8, 9.4, 0.5, 1.0</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p>TO-92A</p>	 <p>Dimensional drawing of TO-92A package showing top, side, and detail views. Dimensions include: top diameter 5.0±0.2, height 7.5±0.3, lead length 12.7 min., lead diameter 0.4±0.1, and lead thickness 0.38 (+0.10/-0.05).</p>	 <p>Recommended land pattern for TO-92A package, showing a square pad with a diameter of 6.00 mm.</p>
<p>TO-252C</p>	 <p>Dimensional drawing of TO-252C package showing top, side, and detail views. Dimensions include: top diameter 6.60±0.20, lead diameter 0.76±0.05, lead length 1.524 (+0.254/-0.127), and lead thickness 0.127 max.</p>	 <p>Recommended land pattern for TO-252C package, showing a square pad with a diameter of 6.00 mm and a lead diameter of 2.30 mm.</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>TO-252-5A</b></p>	 <p>Top view dimensions: 6.60±0.20, 5.34±0.20, 6.10±0.20, 2.70±0.20, 9.90±0.30, 1.10±0.20, 1.27, 0.50±0.10, 0.10, 0.127, 0.10, 0.50±0.10, 1.524<sup>+0.254</sup>/<sub>-0.127</sub>.</p> <p>Side view dimensions: 0.50±0.10, 1.524<sup>+0.254</sup>/<sub>-0.127</sub>.</p> <p>Detail view dimensions: 0.127max., (1.00), 2.30±0.20, (6.04), (3.56), (4.06), (5.51), (1.50), (4.19).</p>	 <p>Land pattern dimensions: 5.34, 5.61, 6.33, 1.92, 0.65, 1.27.</p>
<p><b>TSOP-16A</b></p>	 <p>Top view dimensions: 5.0±0.3, 4.4±0.2, 0.65, 0.525max., 16, 9.</p> <p>Side view dimensions: 0.15<sup>+0.10</sup>/<sub>-0.05</sub>, 0.5±0.2, 6.4±0.3, 0~10°.</p> <p>Detail view dimensions: (1.0), 0.10, 0.22±0.1, 0.10, 0.10±0.05, 1.1±0.1.</p>	 <p>Land pattern dimensions: 0.65, 0.35, 5.9, 0.90.</p>

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>TSOP-16B</b></p>		
<p><b>TSOP-16D</b></p>		

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>TSOP-20A</b></p>		
<p><b>TSOP-20B</b></p>		

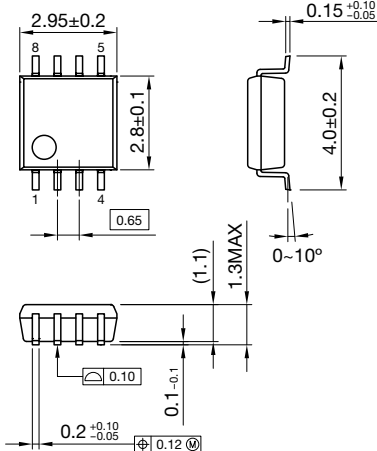
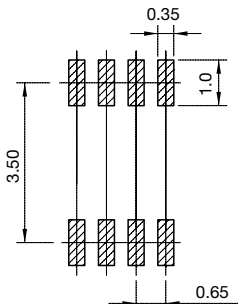
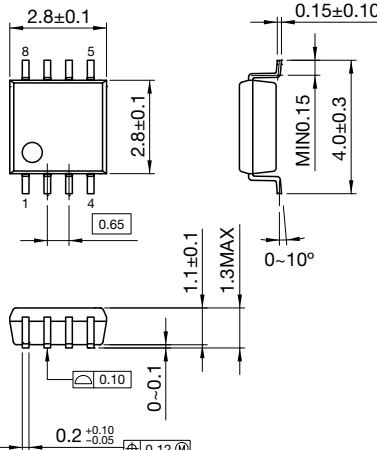
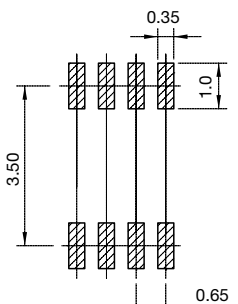
# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>TSOP-20D</b></p>		
<p><b>TSOP-20E</b></p>		

# Package

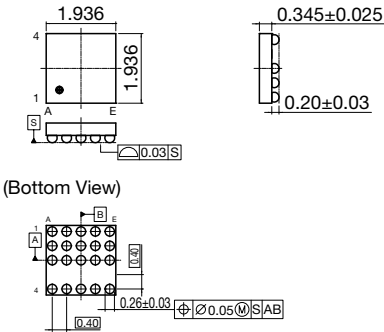
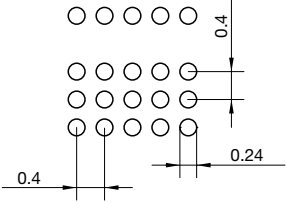
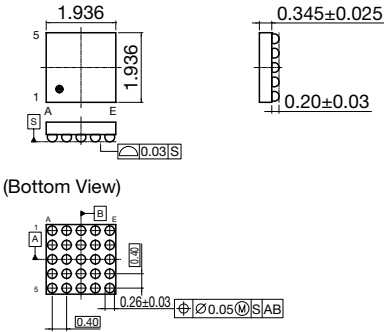
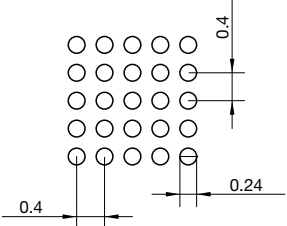
Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>TSOP-20F</b></p>	<p>Top View: 6.5±0.3, 4.4±0.2, 0.65, 11, 20, 10</p> <p>Side View: 0.127±0.008, 0.6±0.1, 6.4±0.3, 0-8°</p> <p>Bottom View: 0.24±0.05, 0.1±0.05, 1.20MAX, 1.0, 0.10, 0.10, 1, 10, 20, 11, 3.99, (2.80)</p>	<p>Dimensions: 7.72, 5.94, 3.00, 4.16, 1.78, 0.65, 0.40, 3.19</p>
<p><b>VSOP-8B</b></p>	<p>Top View: 2.9±0.1, 2.8±0.2, 0.65, 8, 5, 4, 1</p> <p>Side View: 0.125<sup>+0.10</sup>/<sub>-0.05</sub>, 0.45±0.20, 4.0±0.3, 0-10°</p> <p>Bottom View: 0.2±0.1, 0.10±0.05, 1.1, 1.3max, 0.10, 0.12, 1, 4</p>	<p>Dimensions: 0.65, 3.55, 0.95, 0.35</p>

# Package

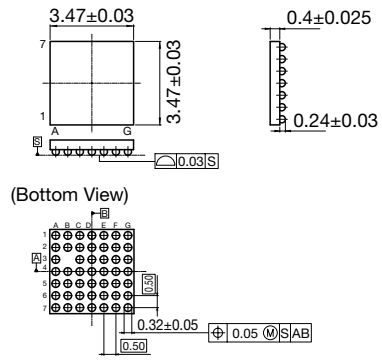
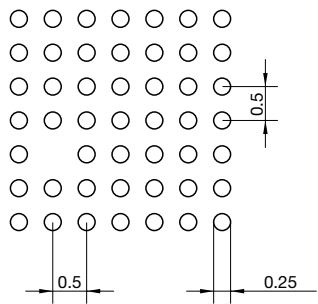
Package Name	Dimensional Drawing	Recommended Land Pattern
<p>VSOP-8C</p>	 <p>Dimensional drawing of the VSOP-8C package. The top view shows a width of <math>2.95 \pm 0.2</math> and a height of <math>2.8 \pm 0.1</math>. The lead pitch is <math>0.65</math>. The side view shows a lead height of <math>0.15^{+0.10}_{-0.05}</math> and a total height of <math>4.0 \pm 0.2</math>. The lead angle is <math>0 \sim 10^\circ</math>. The bottom view shows a lead length of <math>1.3 \text{ MAX}</math> and a distance of <math>1.1</math> from the lead tip to the package edge. The lead thickness is <math>0.1</math>. The lead width is <math>0.2^{+0.10}_{-0.05}</math> and the lead diameter is <math>\phi 0.12</math>.</p>	 <p>Recommended land pattern for the VSOP-8C package. The land width is <math>0.35</math> and the land length is <math>1.0</math>. The pitch between lands is <math>0.65</math> and the total width of the land area is <math>3.50</math>.</p>
<p>VSOP-8D</p>	 <p>Dimensional drawing of the VSOP-8D package. The top view shows a width of <math>2.8 \pm 0.1</math> and a height of <math>2.8 \pm 0.1</math>. The lead pitch is <math>0.65</math>. The side view shows a lead height of <math>0.15 \pm 0.10</math> and a total height of <math>4.0 \pm 0.3</math>. The lead angle is <math>0 \sim 10^\circ</math>. The bottom view shows a lead length of <math>1.3 \text{ MAX}</math> and a distance of <math>1.1 \pm 0.1</math> from the lead tip to the package edge. The lead thickness is <math>0.1</math>. The lead width is <math>0.2^{+0.10}_{-0.05}</math> and the lead diameter is <math>\phi 0.12</math>.</p>	 <p>Recommended land pattern for the VSOP-8D package. The land width is <math>0.35</math> and the land length is <math>1.0</math>. The pitch between lands is <math>0.65</math> and the total width of the land area is <math>3.50</math>.</p>



# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>WLCSP-20A</b></p>	 <p>(Bottom View)</p>	
<p><b>WLCSP-25A</b></p>	 <p>(Bottom View)</p>	

# Package

Package Name	Dimensional Drawing	Recommended Land Pattern
<p><b>WLCSP-48A</b></p>	 <p>Top View Dimensions:  <math>3.47 \pm 0.03</math> (width)  <math>3.47 \pm 0.03</math> (height)  <math>0.4 \pm 0.025</math> (pitch)  <math>0.24 \pm 0.03</math> (lead length)  <math>0.03</math> (lead thickness)</p> <p>(Bottom View)  <math>0.32 \pm 0.05</math> (pitch)  <math>0.50</math> (width)  <math>0.05</math> (lead length)  <math>0.50</math> (width)</p>	 <p>Land Pattern Dimensions:  <math>0.5</math> (pitch)  <math>0.25</math> (width)</p>