

# INTRODUCTION

## PACKAGE MECHANICAL SPECIFICATIONS AND PARAMETERS

### 1. Parameter Definitions:

**A** = Distance from top of chip to top of glass.

**a** = Photodiode Anode.

**B** = Distance from top of glass to bottom of case.

**c** = Photodiode Cathode (**Note: cathode is common to case in metal package products unless otherwise noted**).

**W** = Window Diameter.

**F.O.V.** = Field of View (see definition below).

2. Dimensions are in inches (1 inch = 25.4 mm).

3. Pin diameters are  $0.018 \pm 0.001$ " unless otherwise specified.

4. **Tolerances** (unless otherwise noted)

General:                     $0.XX \pm 0.01$ "  
                                   $0.XXX \pm 0.005$ "

Chip Centering:            $\pm 0.010$ "

Dimension 'A':             $\pm 0.015$ "

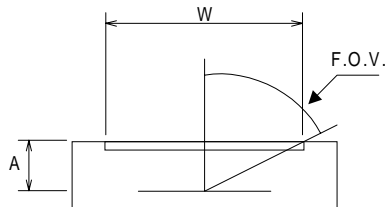
### 5. Windows

All 'UV' Enhanced products are provided with QUARTZ glass windows,  $0.027 \pm 0.002$ " thick.

All 'XUV' products are provided with removable windows.

All 'DLS' PSD products are provided with A/R coated glass windows.

All 'FIL' *photoconductive* and *photovoltaic* products are epoxy filled instead of glass windows.

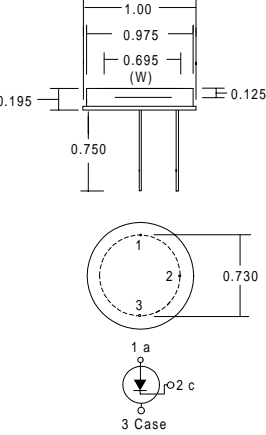
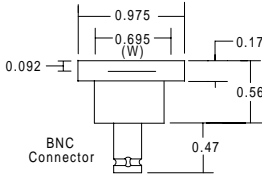
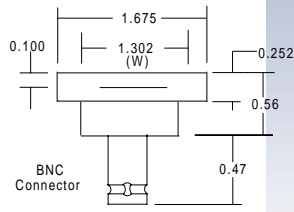
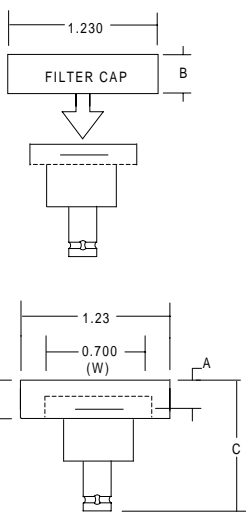
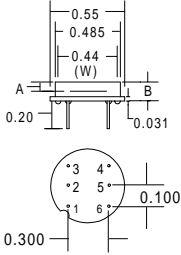
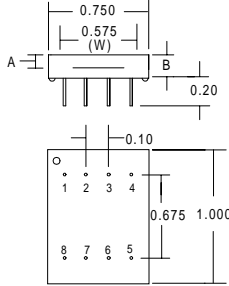


$$F.O.V. = \tan^{-1} [W/2A]$$

# MECHANICAL SPECIFICATIONS

1 TO-18	Products	2 TO-5	Products	3 TO-8	Products																				
<p>Pin Circle Dia. = 0.100</p> <p>4 Case 3 c</p>	<p><b>PIN-020A</b> <b>PIN-040A</b></p>	<p>Pin Circle Dia = 0.200</p> <p><b>PIN-APD032</b> <b>PIN-5DI</b> <b>PIN-5DPI</b> <b>PIN-13DI</b> <b>PIN-13DPI</b></p> <p><b>PIN-APD032</b> 3 Case 2 c</p> <p><b>All Others</b> 3 c 2 Case</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>A</th> <th>B</th> <th>W</th> </tr> </thead> <tbody> <tr> <td>PIN-APD032</td> <td>0.073</td> <td>0.167</td> <td>0.260</td> </tr> <tr> <td>All Others</td> <td>0.094</td> <td>0.180</td> <td>0.240</td> </tr> </tbody> </table>	P/N	A	B	W	PIN-APD032	0.073	0.167	0.260	All Others	0.094	0.180	0.240	<p>Pin Circle Dia = 0.295</p> <table border="1"> <thead> <tr> <th>P/N</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>PIN-6DI PIN-6DPI</td> <td>0.115</td> </tr> <tr> <td>PIN-44DI PIN-44DPI</td> <td>0.125</td> </tr> </tbody> </table> <p><b>PIN-6DI</b> <b>PIN-6DPI</b> <b>PIN-44DI</b> <b>PIN-44DPI</b></p> <p><b>PIN-6DI/6DPI</b> 3 a 2 Case</p> <p><b>PIN-44DI/44DPI</b> 1 a 3 Case</p>	P/N	A	PIN-6DI PIN-6DPI	0.115	PIN-44DI PIN-44DPI	0.125	<p>Pin Circle Dia = 0.100</p> <p>3 c 2 Case</p>	<p><b>PIN-2DI</b> <b>PIN-2DPI</b> <b>PIN-3CDI</b> <b>PIN-3CDPI</b></p>	<p>Pin Circle Dia = 0.200</p> <p><b>PIN-5D</b> <b>PIN-5DP</b> <b>PIN-5DP/SB</b> <b>PIN-13D</b> <b>PIN-13DP</b> <b>PIN-005E-550F</b> <b>UV-001</b> <b>UV-005</b> <b>UV-005D</b> <b>UV-005E</b> <b>UV-013D</b> <b>UV-013E</b> <b>UV-015</b></p> <p><b>PIN-005E-550F</b> <b>PIN-5D</b> <b>UV-005D</b> <b>UV-013D</b></p> <p><b>PIN 5DP/SB</b> <b>UV-005E</b> <b>UV-013E</b></p> <p><b>UV-001, UV-005, UV-015</b></p> <p>3 c 1 a</p> <p>3 a 1 c</p>	<p>Pin Circle Dia = 0.295</p> <p><b>PIN-6D</b> <b>PIN-6DP</b> <b>PIN-44D</b> <b>PIN-44DP</b> <b>UV-020</b> <b>UV-035D</b> <b>UV-035E</b> <b>UV-035</b></p> <p><b>ALL EXCEPT UV35</b> 3 c 1 a</p> <p><b>UV35 PINOUT</b> 3 a 1 c</p>
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# MECHANICAL SPECIFICATIONS

<p><b>21 TO-5</b></p> <p><b>Products</b></p> <p><b>XUV-005</b></p> <p>Pin Circle Dia = 0.200</p> <p>3 a <math>\rightarrow</math> <math>\leftarrow</math> c</p>	<p><b>22 TO-8</b></p> <p><b>Products</b></p> <p><b>XUV-020 XUV-035</b></p> <p>Pin Circle Dia = 0.295</p> <p>3 c <math>\leftarrow</math> <math>\rightarrow</math> a</p>	<p><b>23 TO-8</b></p> <p><b>Products</b></p> <p><b>PIN-DSIn-TEC</b></p> <p><b>PINOUT</b></p> <ul style="list-style-type: none"> <li>1 - TEC (-)</li> <li>2 - Thermistor</li> <li>3 - Thermistor</li> <li>4 - TEC (+)</li> <li>5 - Bottom InGaAs, Cathode</li> <li>6 - Bottom InGaAs, Anode</li> <li>7 - Top Silicon, Anode</li> <li>8 - Top Silicon, Cathode</li> </ul>																																																																
<p><b>24 SPECIAL CERAMIC/PLASTIC</b></p> <p><b>Products</b></p> <p><b>RD-100 RD-100A UV-35P UV-005EC UV-035EC UV-100EC UV-005DC UV-035DC UV-100DC XUV-50C XUV-100C</b></p> <p>Notch Indicates Anode Pin</p> <table border="1"> <thead> <tr> <th colspan="5">DIMENSIONS</th> </tr> <tr> <th>P/N</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>UV-005EC</td> <td>0.30</td> <td>0.24</td> <td>0.18</td> <td></td> </tr> <tr> <td>UV-035EC</td> <td>0.40</td> <td>0.35</td> <td>0.048</td> <td>0.29</td> </tr> <tr> <td>UV-100EC</td> <td>0.65</td> <td>0.59</td> <td></td> <td>0.50</td> </tr> <tr> <td>UV-005DC</td> <td>0.30</td> <td>0.24</td> <td>0.18</td> <td></td> </tr> <tr> <td>UV-035DC</td> <td>0.40</td> <td>0.35</td> <td>0.053</td> <td>0.29</td> </tr> <tr> <td>UV-100DC</td> <td>0.65</td> <td>0.59</td> <td></td> <td>0.50</td> </tr> <tr> <td>XUV-50C</td> <td>0.49</td> <td></td> <td></td> <td>0.49</td> </tr> <tr> <td>XUV-100C</td> <td>0.49</td> <td>0.59</td> <td>0.027</td> <td>0.49</td> </tr> <tr> <td>RD-100</td> <td>0.65</td> <td></td> <td></td> <td></td> </tr> <tr> <td>RD-100A</td> <td>0.65</td> <td></td> <td></td> <td></td> </tr> <tr> <td>UV-35P</td> <td>0.390</td> <td>0.345</td> <td>0.050</td> <td>0.275</td> </tr> </tbody> </table>	DIMENSIONS					P/N	A	B	C	D	UV-005EC	0.30	0.24	0.18		UV-035EC	0.40	0.35	0.048	0.29	UV-100EC	0.65	0.59		0.50	UV-005DC	0.30	0.24	0.18		UV-035DC	0.40	0.35	0.053	0.29	UV-100DC	0.65	0.59		0.50	XUV-50C	0.49			0.49	XUV-100C	0.49	0.59	0.027	0.49	RD-100	0.65				RD-100A	0.65				UV-35P	0.390	0.345	0.050	0.275	<p><b>25 TO-8</b></p> <p><b>Products</b></p> <p><b>PIN-FD07 PIN-FD15</b></p> <p>Pin Circle Dia = 0.295</p> <p>2 Case</p>
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