



NSL-3800, 4800 SERIES

## TO-5 PHOTOCONDUCTIVE CELLS

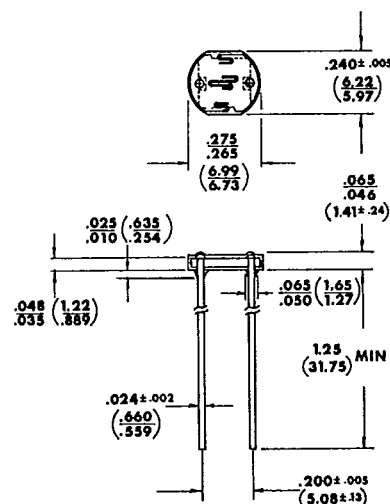
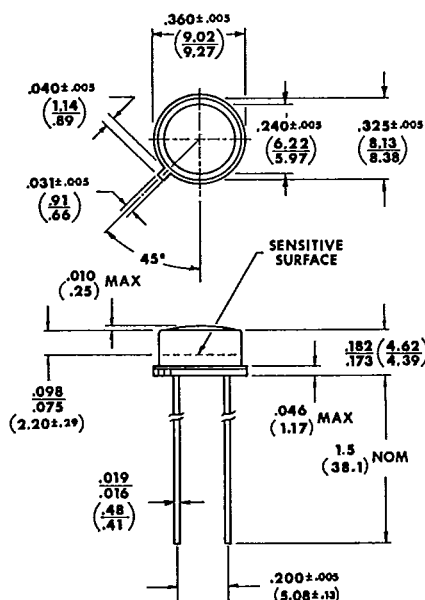
## TO-5

| Silonex Part No. | Sensitive Material | Rise Time (ms)<br>Dark To 110% $R_L$ (1) |           | Decay Time(ms)<br>To 10x $R_L$ (1) |              | Typical Temperature Coefficient<br>(%/°C) |           | Typical Capacitance<br>In Dark (pF) |
|------------------|--------------------|------------------------------------------|-----------|------------------------------------|--------------|-------------------------------------------|-----------|-------------------------------------|
|                  |                    | @ 1 Ftc                                  | @ 100 Ftc | from 1 Ftc                         | from 100 Ftc | @ 1 Ftc                                   | @ 100 Ftc |                                     |
| NSL-3810         | Type 3<br>CdSe     | 9.5                                      | 0.4       | 3.8                                | 4.5          | 9                                         | 0.5       | 3                                   |
| NSL-3820         |                    | 9.5                                      | 0.4       | 4.5                                | 5            | 7                                         | 0.4       | 3.3                                 |
| NSL-3830         |                    | 11                                       | 0.6       | 5.5                                | 5.5          | 6                                         | 0.3       | 4                                   |
| NSL-3840         |                    | 11                                       | 0.8       | 11                                 | 6            | 5                                         | 0.3       | 5                                   |
| NSL-3850         |                    | 10                                       | 0.4       | 4.5                                | 5            | 9                                         | 0.4       | 1.2                                 |
| NSL-3860         |                    | 13                                       | 0.6       | 7                                  | 5.5          | 7                                         | 0.3       | 1.6                                 |
| NSL-3870         |                    | 13                                       | 0.8       | 11                                 | 6            | 5                                         | 0.3       | 1.8                                 |
| NSL-4810         | Type 4<br>CdS      | 8                                        | 0.8       | 23                                 | 4.5          | 0.18                                      | 0.02      | 3.3                                 |
| NSL-4820         |                    | 9                                        | 1.0       | 30                                 | 10           | 0.2                                       | 0.01      | 3.8                                 |
| NSL-4830         |                    | 18                                       | 2.8       | 100                                | 44           | 0.22                                      | 0.01      | 4.5                                 |
| NSL-4840         |                    | 20                                       | 3.6       | 290                                | 85           | 0.08                                      | 0.03      | 5                                   |
| NSL-4850         |                    | 9                                        | 1         | 30                                 | 10           | 0.2                                       | 0.01      | 1                                   |
| NSL-4860         |                    | 18                                       | 2.8       | 100                                | 44           | 0.2                                       | 0.01      | 1                                   |
| NSL-4870         |                    | 20                                       | 3.6       | 290                                | 85           | 0.08                                      | 0.03      | 1.3                                 |

(1)  $R_L$  = Photocell resistance under given illumination

MEASUREMENT DATA: Cells light adapted at 30 - 50 Ftc for 16 hours minimum prior to test. All measurements conducted at 25°C ambient, 2854° K.

Dark resistances measured 15 seconds after removal of room light (30 - 50 Ftc). Power derating: Linearly to 65°C for Type 3 and linearly to 75°C for Type 4.



## Part Number Coding

NSL - 4810

3 - Type 3 CdSe

4 - Type 4 CdS

0 - Hermetic package

2 - Plastic encapsulated cell

TO-5 size

Resistance Range