

# ZW360A-646

| Data      | Spec Number |
|-----------|-------------|
| 2003/4/29 | S-646-00    |

## Device Selection Guide

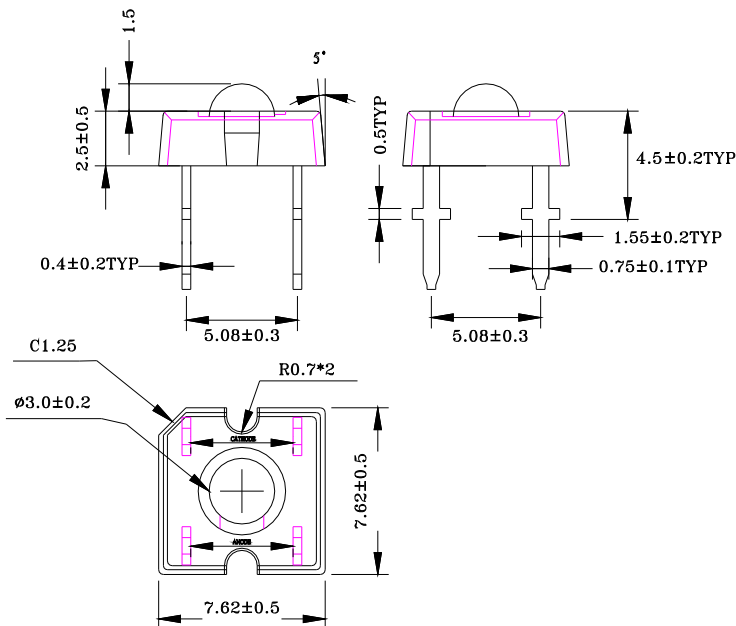
**PRELIMINARY 2**

| Part Number | Total Flux<br>$\Phi_V$ (mlm)<br>@ $I_F = 50$ mA |      | Viewing Angle<br>$2\theta_{1/2}$<br>@ $I_F = 50$ mA | Chromaticity<br>@ $I_F = 50$ mA |         | $V_F$<br>@ $I_F = 50$ mA |      | $I_R$ ( $\mu$ A)<br>@ $V_R = 5$ V |
|-------------|-------------------------------------------------|------|-----------------------------------------------------|---------------------------------|---------|--------------------------|------|-----------------------------------|
|             | Min.                                            | Typ. | Typ.                                                | X(Typ.)                         | Y(Typ.) | Typ.                     | Max. | Max.                              |
| ZW360A-646  | 1430                                            | 2500 | 60°                                                 | 0.31                            | 0.32    | 4.0                      | 4.6  | 100                               |

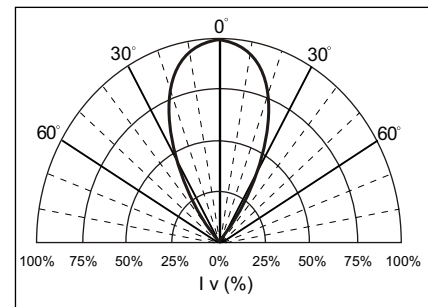
| BIN#                               | C         | D         | E         |  |  |
|------------------------------------|-----------|-----------|-----------|--|--|
| Total Flux(mlm)<br>@ $I_F = 50$ mA | 1430-2000 | 2000-2750 | 2750-3850 |  |  |

Notes: [1] Tolerance Value of  $\Phi_V \pm 15\%$ .

## Package Dimensions



## Beam Pattern



Note:

- All dimensions are in millimeter (mm).
- Unspecified tolerance:  $\pm 0.20$ mm.
- Protruded resin 1.5mm max.
- Lead spacing is measured where the leads emerge from the package
- Specifications are subject to change without notice.

Absolute Maximum Ratings at  $T_A = 25^\circ\text{C}$

| Parameter                   | Symbol    |                     | USER---APPROVED |
|-----------------------------|-----------|---------------------|-----------------|
| DC Forward Current          | $I_f$     | 50mA                |                 |
| Reverse Voltage             | $V_r$     | 5V                  |                 |
| Power Dissipation           | $P_D$     | 230mW               |                 |
| Operating Temperature Range | $T_{opr}$ | -40°C to + 85°C     |                 |
| Storage Temperature Range   | $T_{sto}$ | -40°C to + 100°C    |                 |
| Lead Soldering Temperature  | $T_{sol}$ | 260°C for 5 Seconds |                 |

Notes: Duty Ratio=1/10, Pulse Width=0.1 ms