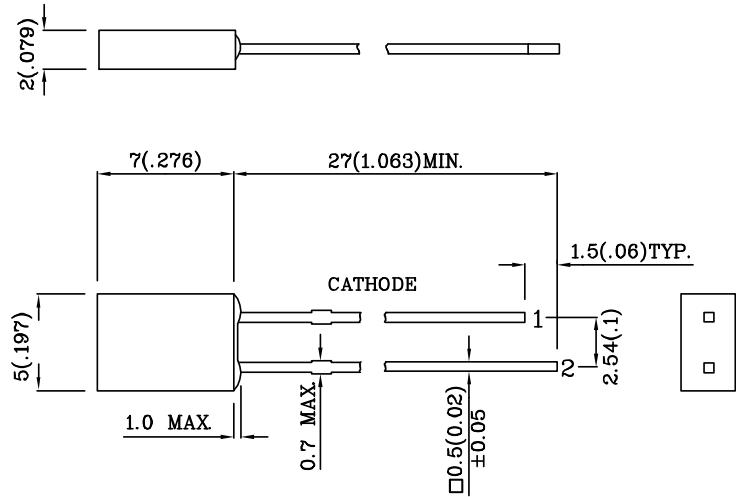


Features

- LOW POWER CONSUMPTION.
- RELIABLE AND RUGGED.
- EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- SUITABLE FOR LEVEL INDICATOR.
- LONG LIFE - SOLID STATE RELIABILITY.



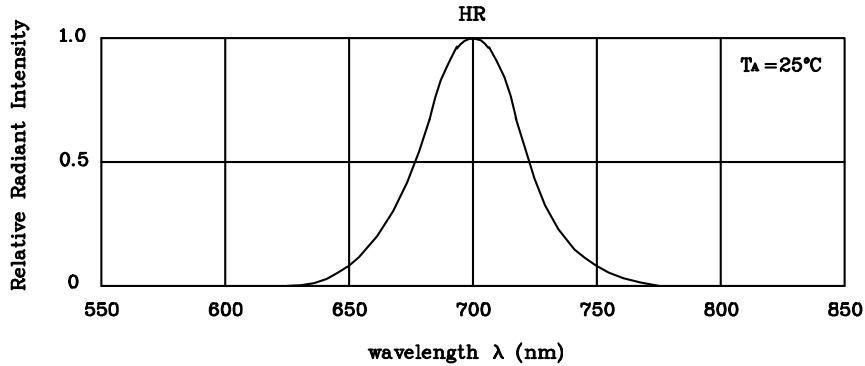
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25(0.01") unless otherwise noted.

| Absolute maximum ratings (TA=25°C) | | HR (GaP) | Unit |
|---|---------------------|-------------|------|
| Reverse voltage | VR | 5 | V |
| Forward current | IF | 25 | mA |
| Forward current (peak) 1/10Duty cycle 0.1ms pulse width | iFS | 130 | mA |
| Power dissipation | PT | 120 | mW |
| Operating temperature | TA | -40 ~ +85 | °C |
| Storage temperature | Tstg | -40 ~ +85 | |
| Lead solder temperature [2mm below package base] | 260°C For 5 Seconds | | |

| Operating Characteristics (TA=25°C) | | HR (GaP) | Unit |
|---|--------|-------------|------|
| Forward voltage (typ.) (IF=10mA) | VF | 2.05 | V |
| Forward voltage (max.) (IF=10mA) | VF | 2.5 | V |
| Reverse current (VR=5V) | IR | 10 | uA |
| Wavelength at peak emission (IF=10mA) | λ peak | 700 | nm |
| Wavelength at Dominate emission (IF=10mA) | λ D | 660 | nm |
| Spectral Line half-width (IF=10mA) | Δλ | 45 | nm |
| Capacitance (VF=0V, f=1MHz) | C | 40 | pF |

| Part Number | Emitting Color | Emitting Material | Lens-color | Luminous Intensity (IF=10mA) mcd | | Wavelength nm λ P | Viewing Angle 2 θ 1/2 |
|---|----------------|-------------------|--------------|--|------|-------------------------|--------------------------|
| | | | | min. | typ. | | |
| XSHR18D | Red | GaP | Red Diffused | 0.4 | 0.9 | 700 | 110° |
| Published Date : AUG 31,2003 Drawing No : XDSA2467 V2 Checked : B.L.LIU P.1/2 | | | | | | | |



RELATIVE INTENSITY Vs. WAVELENGTH

❖ HR

