

62175

**HIGH BRIGHT LOW POWER
HERMETIC LED INDICATORS**



04/05/2010

Features:

- Hermetically sealed
- Choice of colors (Red, Yellow, Green, Blue)
- 180° Wide Viewing Angle
- Designed for Hi-Reliability applications
- Positive State Status in Sunlight

Applications:

- P.C. Board Fault Indicator
- Logic Status Indicator
- Binary Data Display
- Power supply on/off indicator

DESCRIPTION

The **62175** series indicators are hermetically sealed in TO-46 packages. A diffused dome lens provides good on/off contrast and a wide viewing angle. The 62175-10X (Red) and 62175-20X (Yellow) indicators utilize a high efficiency AlGaInP on GaP LED, while the 62175-30X (Green) and 62175-40X (Blue) indicators utilize a GaN on Sapphire LED. Each type uses a diffused plastic lens over a glass window. All versions are available in standard, JAN, JANTX or JANTXV screened levels.

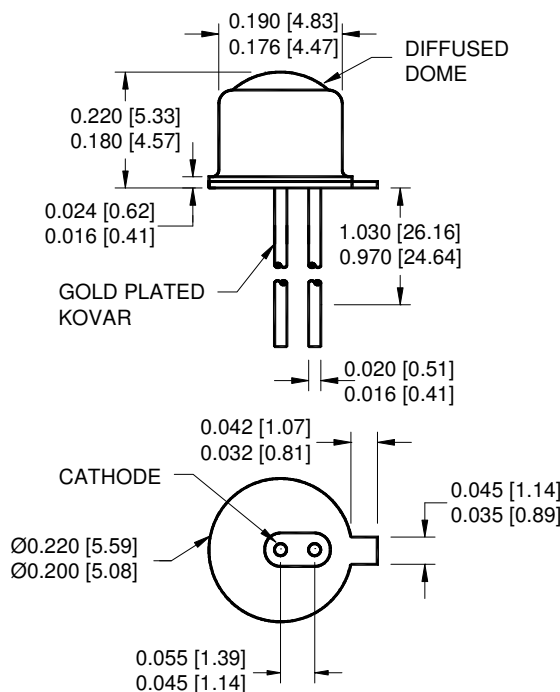
ABSOLUTE MAXIMUM RATINGS

Reverse Voltage	5 Vdc
Power Dissipation (Note 1)	120 mW
Forward Current-Continuous (Note 2)	20 mA
Operating Temperature	-55°C to +100°C
Storage Temperature	-65°C to +100°C
Lead Soldering Temperature (10 seconds, 1/16" from case)	260°C

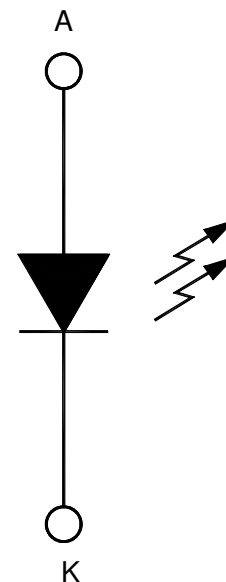
NOTES :

1. Derate at the rate of 1.6 mW/°C above 25°C.
2. Derate at the rate of 0.46 mW/°C above 25°C.

Dimensions



Schematic Diagram



ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]

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ELECTRICAL/OPTICAL CHARACTERISTICS $T_A = 25^\circ\text{C}$

PART NUMBER	COLOR	TEST CONDITION	PARAMETER LIMITS			
		I_F , mA	PEAK λ , nm	I_V , mcd		V_F , V
			TYP.	MIN.	TYP.	MAX.
62175-10X	RED	5	620	30	35	2.3
62175-20X	YELLOW	5	590	10	15	2.3
62175-30X	GREEN	5	516	20	25	3.5
62175-40X	BLUE	5	466	3	5	3.5

RECOMMENDED OPERATING CONDITIONS:

PARAMETER	SYMBOL	MIN	MAX	UNITS
Forward Current	I_F	1	20	mA
Operating Temperature	T_A	-55	+100	$^\circ\text{C}$

SELECTION GUIDE

PART NUMBER	PART DESCRIPTION
62175-101	Commercial, Red LED
62175-102	JAN Screened, Red LED
62175-103	JANTX Screened, Red LED
62175-104	JANTXV Screened, Red LED
62175-201	Commercial, Yellow LED
62175-202	JAN Screened, Yellow LED
62175-203	JANTX Screened, Yellow LED
62175-204	JANTXV Screened, Yellow LED
62175-301	Commercial, Green LED
62175-302	JAN Screened, Green LED
62175-303	JANTX Screened, Green LED
62175-304	JANTXV Screened, Green LED
62175-401	Commercial, Blue LED
62175-402	JAN Screened, Blue LED
62175-403	JANTX Screened, Blue LED
62175-404	JANTXV Screened, Blue LED