

62035**1N5765****1N6092****1N6093****1N6094****JAN QUALIFIED HERMETIC
LED INDICATORS****Mii****OPTOELECTRONIC PRODUCTS
DIVISION****Features:**

- Hermetically sealed
- Choice of colors (Red, Yellow, Green)
- Wide Viewing Angle
- Panel Mount versions with wire wrappable leads
- Designed for Hi-Reliability applications

Applications:

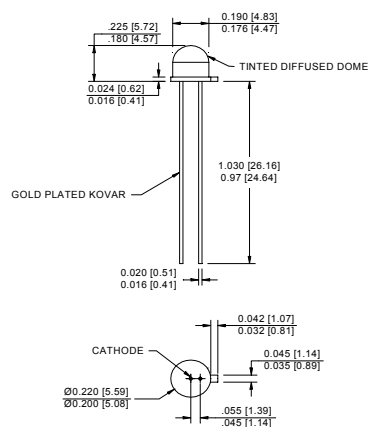
- P.C. Board Fault Indicator
- Logic Status Indicator
- Binary Data Display
- Power supply on/off indicator

DESCRIPTION

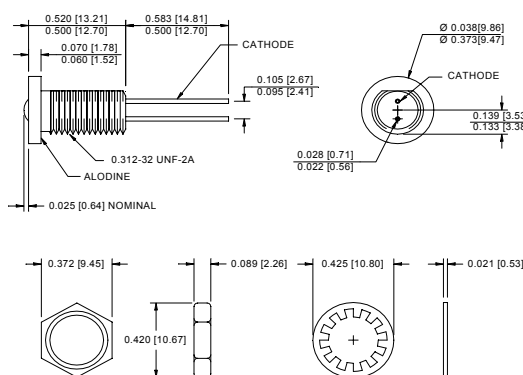
The **1N5765**, **1N6092**, **1N6093** and **1N6094** series indicators are hermetically sealed in TO-46 packages. A tinted diffused dome lens provides good on/off contrast and a wide viewing angle. The 1N5765 indicator utilizes a GaAsP on GaAs LED. The 1N6092 (red) and 1N6093 (yellow) indicators utilize a high efficiency GaAsP on GaP LED, while the 1N6094 indicator utilizes a GaP on GaP LED. Each type uses a colored diffused plastic lens over a glass window. All versions are available in standard, JAN or JANTX screened levels.

ABSOLUTE MAXIMUM RATINGS

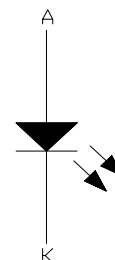
Storage Temperature.....	-65°C to +100°C
Operating Temperature	-55°C to +100°C
Reverse Voltage	5Vdc
Reverse Voltage (1N5765).....	4Vdc
Power Dissipation (Derate at the rate of 2.4 mW/°C above 50°C)	120mW
Power Dissipation (1N5765)....(Derate at the rate of 3.0 mW/°C above 50°C)	150mW
Forward Current-Continuous	35mA
Forward Current-Continuous (1N5765)	50mA
Lead Soldering Temperature (1/16" (1.6mm) from case for 10 seconds)	260°C
Maximum Mounting Torque (Panel mount version).....	25in•lbs

Indicator Dimensions

ALL DIMENSIONS ARE IN INCHES [MILLIMETERS]

Panel Mount Dimensions**NOTES:**

1. ALL EXTERNAL METAL SURFACES OF THE PACKAGE ARE BLACK ANODIZED EXCEPT FOR THE ALODINE AREA OF THE FLANGE AND THE GOLD-PLATED LEADS.
2. MOUNTING HARDWARE WHICH INCLUDES ONE LOCK WASHER AND ONE HEX NUT IS INCLUDED WITH EACH PANEL MOUNTABLE HERMETIC SOLID STATE LAMP.

Schematic Diagram

62035

1N5765

1N6092

1N6093

1N6094

JAN QUALIFIED, HERMETIC LED INDICATORS

***ELECTRICAL/OPTICAL CHARACTERISTICS TA=25°C**

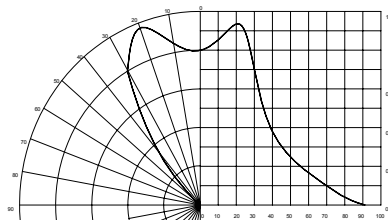
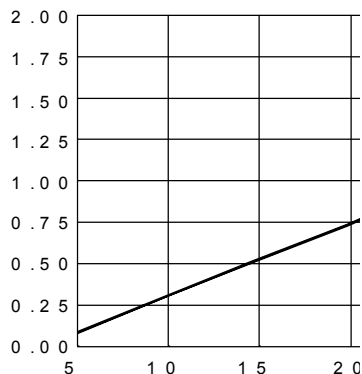
PART NUMBER	COLOR	TEST CONDITION	PARAMETER LIMITS				
			PEAK λ	$I_{V1\theta = 0^\circ}$	$I_{V2\theta = 30^\circ}$	V_F	C
		I_F	TYP.	MIN.	MIN.	MAX.	MAX.
1N5765	RED	20	655	.5mcd	.3 mcd.	2V	300pF
1N6092 M19500/519	RED	20	635	3 mcd	1.5 mcd.	3V	100pF
1N6093 M19500/520	YELLOW	20	585	3 mcd	1.5 mcd.	3V	100pF
1N6094 M19500/521	GREEN	20	570	3 mcd	1.5 mcd.	3V	100pF

RED/YELLOW

I_F - Forward Current - mA
Relative Luminous Intensity
 vs
Forward Current
 (Normalized at 20mA)

GREEN

I_F - Forward Current - mA
Relative Luminous Intensity
 vs
Forward Current
 (Normalized at 25mA)

Relative Luminous Intensity vs. Angular Displacement**RECOMMENDED OPERATING CONDITIONS:**

PARAMETER	SYMBOL	MIN	MAX	UNITS
Forward	I_F	20	35	mA
Operating Temperature	T_A	-65	+100	°C

SELECTION GUIDE

PART NUMBER	PART DESCRIPTION	CONTROLLING MIL DOCUMENT
JAN or JANTX1N5765*	TO-46 LED Indicator	MIL-PRF-19500/467
JAN or JANTX1N6092	TO-46 LED Indicator	MIL-PRF-19500/519A
JAN or JANTXM19500/519	Panel Mount Version, LED Indicator	MIL-PRF-19500/519A
JAN or JANTX1N6093	TO-46 LED Indicator	MIL-PRF-19500/520A
JAN or JANTXM19500/520	Panel Mount Version, LED Indicator	MIL-PRF-19500/520A
JAN or JANTX1N6094	TO-46 LED Indicator	MIL-PRF-19500/521A
JAN or JANTXM19500/521	Panel Mount Version, LED Indicator	MIL-PRF-19500/521A

NOTE:

1. JAN Quality level is designated by adding -01 to part #.
2. JANTX Quality level is designated by adding -02 to part #.

*Panel mount version available from factory