

MTL1N6092 MTL1N6093 MTL1N6094

Hermetic LED Indicators



Features:

- Hermetically sealed
- Red, Yellow, Green color choices
- Wide Viewing Angle
- Panel Mount versions with wire wrappable leads
- High-reliability applications

Applications:

- PC Board Fault Indicator
- Logic Status Indicator
- Binary Data Display
- Power Supply On/Off Indicator

DESCRIPTION:

The **MTL1N6092**, **MTL1N6093** and **MTL1N6094** are hermetically sealed in a T0-46 package. A tinted diffused dome lens provides good on/off contrast and a wide viewing angle. The MTL1N6092 (red) and MTL1N6093 (yellow) indicators utilize a high efficiency GaAsP on GaP LED, while the MTL1N6094 indicator utilizes a GaP on GaP LED. Each type uses a colored deffused 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 Input Voltage.....	.5Vdc
Power Dissipation (Derate at the rate of 2.4 mW/°C above 50°C).....	120mW
Forward Current-Continuous.....	35mA
Lead Solder Temperature (1/16" (1.6mm) from case for 10 seconds max.).....	260°C

RECOMMENDED OPERATING CONDITIONS:

PARAMETER	SYMBOL	MIN	MAX	UNITS
Forward	I _F	20	35	mA
Operating Temperature	T _A	-65	100	°C

SELECTION GUIDE

PARTNUMBER	PARTDESCRIPTION	HIGHRELIABILITY
MTL1N6092.001X	Light Emitting Diode	Commercial (0° to +70° C operating temperature range)
MTL1N6092.002X	Light Emitting Diode	Commercial (-40° to +85° C operating temperature range)
MTL1N6092.003X	Light Emitting Diode	Commercial (-55° to 100° C operating temperature range)
MTL1N6092.004X	Light Emitting Diode	Screened to JANTX level (-55° to 100° C operating temperature range)
MTL1N6093.001X	Light Emitting Diode	Commercial (0° to +70° C operating temperature range)
MTL1N6093.002X	Light Emitting Diode	Commercial (-40° to +85° C operating temperature range)
MTL1N6093.003X	Light Emitting Diode	Commercial (-55° to 100° C operating temperature range)
MTL1N6093.004X	Light Emitting Diode	Screened to JANTX level (-55° to 100° C operating temperature range)
MTL1N6094.001X	Light Emitting Diode	Commercial (0° to +70° C operating temperature range)
MTL1N6094.002X	Light Emitting Diode	Commercial (-40° to +85° C operating temperature range)
MTL1N6094.003X	Light Emitting Diode	Commercial (-55° to 100° C operating temperature range)
MTL1N6094.004X	Light Emitting Diode	Screened to JANTX level (-55° to 100° C operating temperature range)

NOTE: X at end of part number represents lead finish. Replace with A for gold and S for solder.

MTL1N6092, MTL1N6093 & MTL1N6094

HERMETIC LED INDICATORS

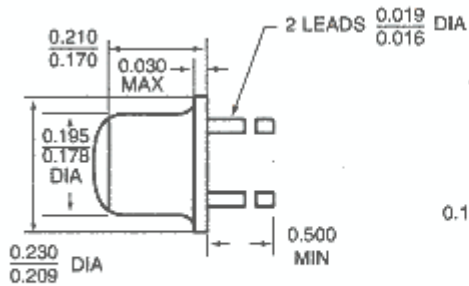
ELECTRICAL CHARACTERISTICS

T_A = 25 C unless otherwise specified.

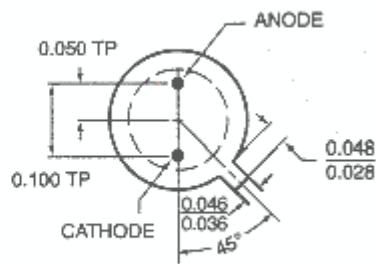
PART NUMBER	COLOR	TEST CONDITION	PARAMETER LIMITS				
			PEAK λ	I _{V1} θ=0°	I _{V1} θ=30°	V _F	C
		I _F					
		mA	TYP	MIN	MIN	MAX	MAX
1N6092	RED	20	635	3 mcd	1.5 mcd	3V	100pF
1N6093	YELLOW	20	585	3 mcd	1.5 mcd	3V	100pF
1N6094	GREEN	25	570	3 mcd	1.5 mcd	3V	100pF

Package Dimensions

Schematic Diagram



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED



THE ANODE IS IN ELECTRICAL
CONTACT WITH THE CASE

