T-1 (3mm) SOLID STATE LAMP

W7104PGT PURE GREEN

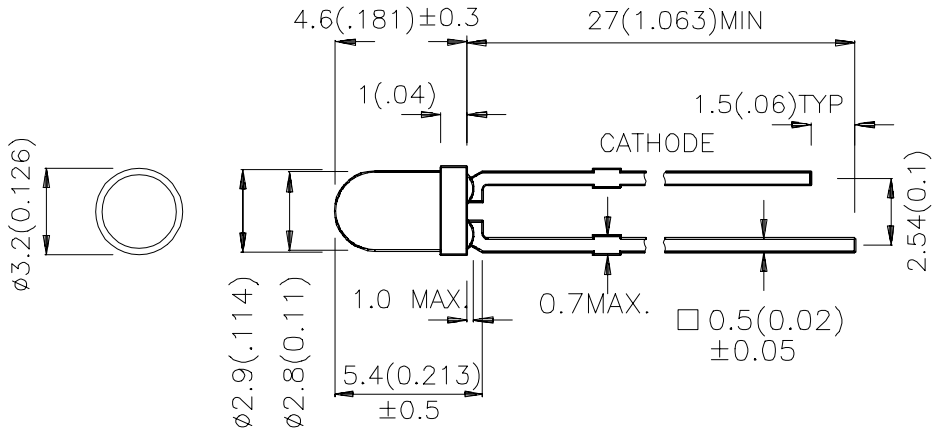
Features

- LOW POWER CONSUMPTION.
- POPULAR T-1 DIAMETER PACKAGE.
- GENERAL PURPOSE LEADS.
- RELIABLE AND RUGGED.
- LONG LIFE - SOLID STATE RELIABILITY.
- AVAILABLE ON TAPE AND REEL.

Description

The Pure Green source color devices are made with Gallium Phosphide Pure Green Light Emitting Diode.

Package Dimensions



Notes:
1. All dimensions are in millimeters (inches).
2. Tolerance is ±0.25(0.01") unless otherwise noted.
3. Lead spacing is measured where the lead emerge package.
4. Specifications are subject to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 10 mA		Viewing Angle
			Min.	Typ.	2θ1/2
W7104PGT	PURE GREEN (GaP)	GREEN TRANSPARENT	3	15	34°

Note:
1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

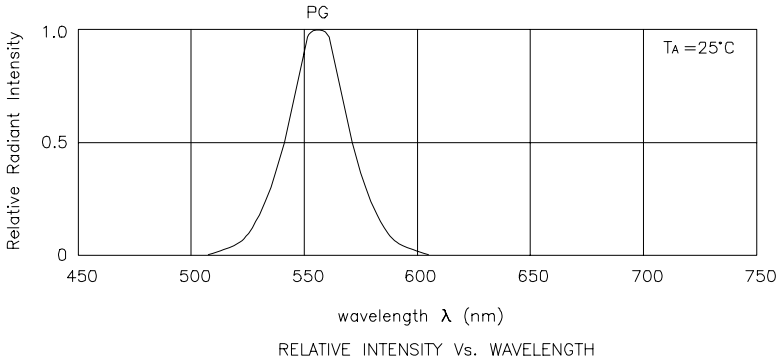
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Pure Green	555		nm	I_F=20mA
λ D	Dominate Wavelength	Pure Green	555		nm	I_F=20mA
Δλ1/2	Spectral Line Half-width	Pure Green	30		nm	I_F=20mA
C	Capacitance	Pure Green	45		pF	V_F=0V;f=1MHz
V_F	Forward Voltage	Pure Green	2.25	2.5	V	I_F=20mA
I_R	Reverse Current	Pure Green		10	uA	V_R = 5V

Absolute Maximum Ratings at T_A=25°C

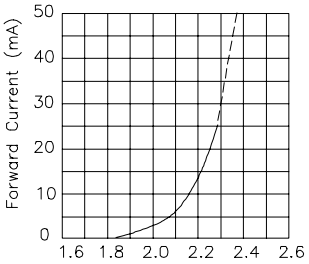
Parameter	Pure Green	Units
Power dissipation	105	mW
DC Forward Current	25	mA
Peak Forward Current [1]	135	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	
Lead Solder Temperature [2]	260°C For 5 Seconds	

Notes:
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.

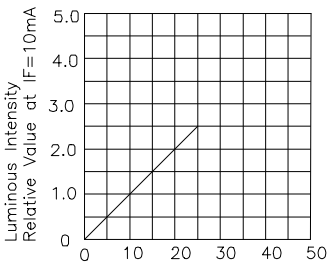


RELATIVE INTENSITY Vs. WAVELENGTH

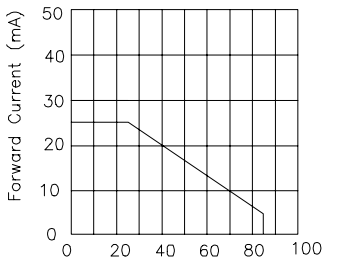
Pure Green W7104PGT



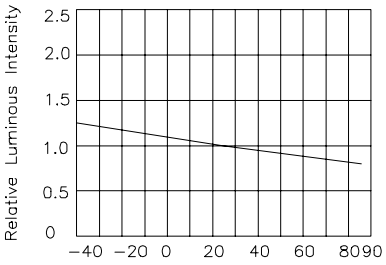
FORWARD CURRENT Vs.
FORWARD VOLTAGE



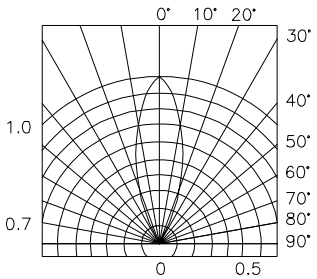
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



SPATIAL DISTRIBUTION