

**GaP FASHION LED**  
**Green**

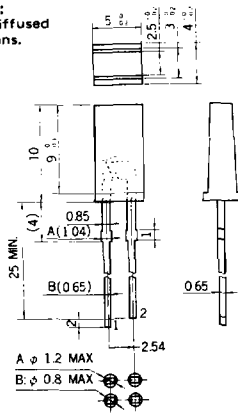
—NEPOC SERIES—

**DESCRIPTION**

The SG232D is a full resin-molded LED lamp and has a rectangular flat face which emits brilliant green light uniformly. It is especially suitable for such electronic equipments as for audio uses which require some fancy looking displays.

**PACKAGE DIMENSIONS**  
in millimeters

**SG232D:**  
Green Diffused  
Plastic lens.



1. Anode  
2. Cathode

**FEATURES**

- Rectangular flat face type
- Low cost.
- Long lead.
- Bright green.
- Compatible with Integrated Circuits.
- Red (SR632D) and amber (SY432D) LED's are available in the same pkg.

**APPLICATIONS**

- Visual displays.
- Peak level indicator.
- Radio, Stereo equipment readout.
- Measuring instrument, terminal.

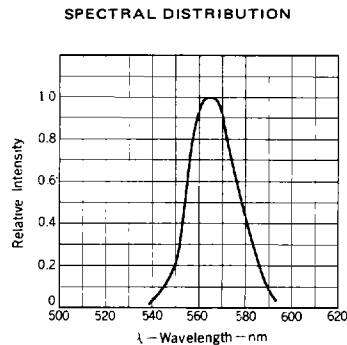
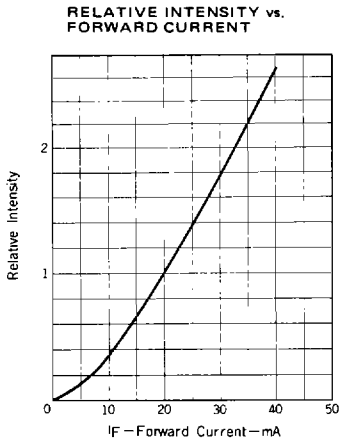
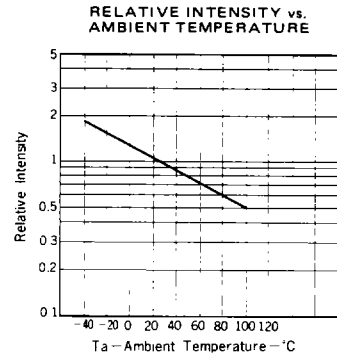
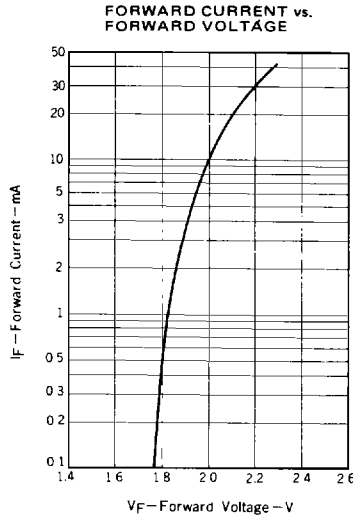
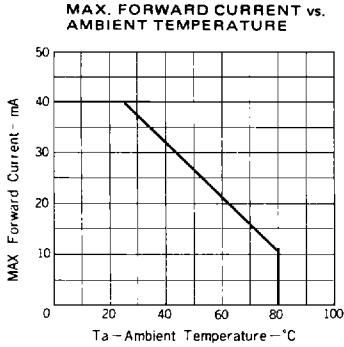
**ABSOLUTE MAXIMUM RATINGS**

Maximum Power Dissipation ( $T_a=25^\circ\text{C}$ )	P	100	mW
Maximum Forward Current ( $T_a=25^\circ\text{C}$ )	$I_F$	40	mA
Maximum Reverse Voltage ( $T_a=25^\circ\text{C}$ )	$V_R$	5	V
<b>Maximum Temperatures</b>			
Junction Temperature	$T_j$	100	$^\circ\text{C}$
Storage Temperature	$T_{stg}$	-40 to +100	$^\circ\text{C}$

**ELECTRO-OPTICAL CHARACTERISTICS ( $T_a=25^\circ\text{C}$ )**

CHARACTERISTIC	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITIONS
Forward Voltage	$V_F$		2.0	2.5	V	$I_F = 10\text{ mA}$
Reverse Current	$I_R$		0.01	10	$\mu\text{A}$	$V_R = 4.5\text{ V}$
Capacitance	$C_t$		100		pF	$V = 0, f = 1.0\text{ MHz}$
Peak Emission Wavelength	$\lambda_{peak}$		565		nm	$I_F = 10\text{ mA}$
Spectral Line Half Width	$\Delta\lambda$		40		nm	$I_F = 10\text{ mA}$
Luminous Intensity	$I_V$	0.2	0.5		mcd	$I_F = 10\text{ mA}$

TYPICAL CHARACTERISTICS (Ta = 25 °C)



HANDLING PRECAUTIONS:

1. The full resin-molded LED lamps have generally a little less mechanical and thermal strength than other resin-molded semiconductor devices as they have less additives. Therefore please note on the following points.
  - (a) Soldering of leads should be made at the point 5 mm or more from the root of the leads at 260 °C and within 5 s.
  - (b) If the temperature of the molded portion rises in addition to the residual stress between the leads, the possibility that open or short circuit occurs due to the deformation or destruction of the resin will increase.
2. On cleaning the device:
  - (a) Cleaning with unsuitable solvent may impair the resin of the package and the following solvents should be used at the temperature of less than 45 °C and for less than 3 minutes of immersion time.
    - Freon TE, Freon TF, Ethanol, Methanol
    - Difron-solvent, Isopropyl-alcohol
  - (b) Ultrasonic cleaning will add some stress on devices. The degree of the stress differs depending on the oscillation output power, the size of the PCB and the mounting methods of the devices, therefore it should be confirmed by making an experiment at actual conditions that the cleaning does not have any problem on the devices.

