SG237D, SY437D, SR537D
GREEN, AMBER, RED
FASHION LEDs

NEPOC SERIES

Description

These three LEDs are full resin-molded LED lamps with flat elliptical faces which uniformly emit brilliant red, green and amber light. They are especially suitable for electronic equipment in audio applications which require fancy displays.

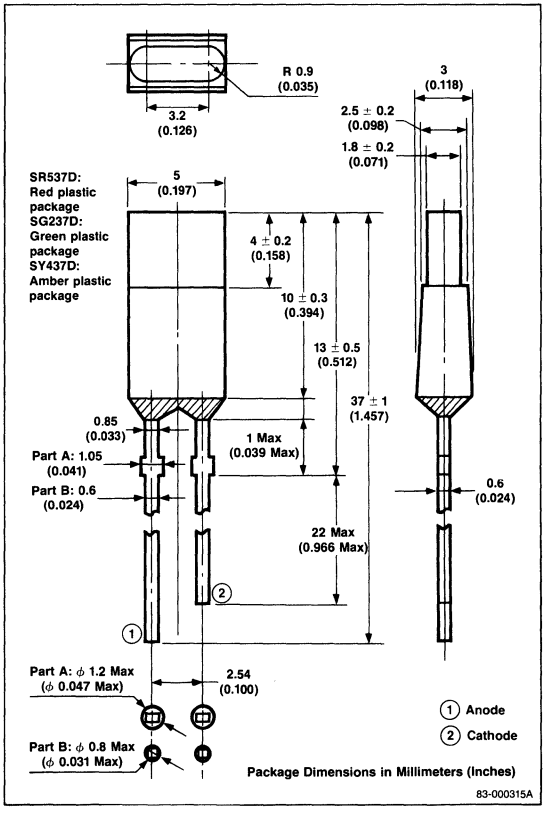
Features

- ☐ Flat elliptical face
- ☐ Low cost
- ☐ Long lead
- ☐ Bright red, green or amber
- ☐ Compatible with integrated circuits

Applications

- ☐ Visual displays
- ☐ Radio and stereo equipment indicators
- ☐ Measuring instrument terminals

Package Dimensions



Absolute Maximum Ratings

T_A = +25°C

Power Dissipation, P_D1	60/100mW
Forward Current, I_F1	30/40mA
Reverse Voltage, V_R	5V
Junction Temperature, T_J	100°C
Storage Temperature, T_{STG}	−40°C to +100°C

Note: 1. SR537D/SG237D, SY437D

Electro-Optical Characteristics

T_A = +25°C

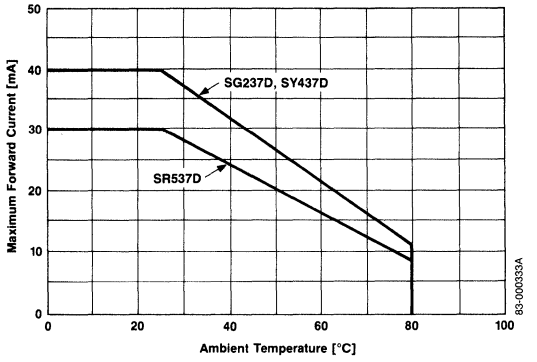
Parameters	Symbol	Limits Min	Typ	Max	Unit	Test Conditions
Forward Voltage						
SR537D	V_F		2.0	2.5	V	I_F = 10mA
SG237D	V_F		2.0	2.5	V	I_F = 10mA
SY437D	V_F		2.0	2.4	V	I_F = 10mA
Reverse Current						
SR537D	I_R		0.01	10	μA	V_R = 4.5V
SG237D	I_R		0.01	10	μA	V_R = 4.5V
SY437D	I_R		0.01	10	μA	V_R = 4.5V
Capacitance						
SR537D	C_T		100		pF	V = 0, f = 1.0MHz
SG237D	C_T		100		pF	V = 0, f = 1.0MHz
SY437D	C_T		60		pF	V = 0, f = 1.0MHz
Peak Emission Wavelength						
SR537D	λ_{PEAK}		695		nm	I_F = 10mA
SG237D	λ_{PEAK}		565		nm	I_F = 10mA
SY437D	λ_{PEAK}		590		nm	I_F = 10mA
Spectral Line Half Width						
SR537D	Δλ		100		nm	I_F = 10mA
SY237D	Δλ		40		nm	I_F = 10mA
SR437D	Δλ		40		nm	I_F = 10mA
Luminous Intensity						
SR537D	I_V	0.2	0.5		mcd	I_F = 10mA
SG237D	I_V	0.2	0.7		mcd	I_F = 10mA
SY437D	I_V	0.2	0.7		mcd	I_F = 10mA

4

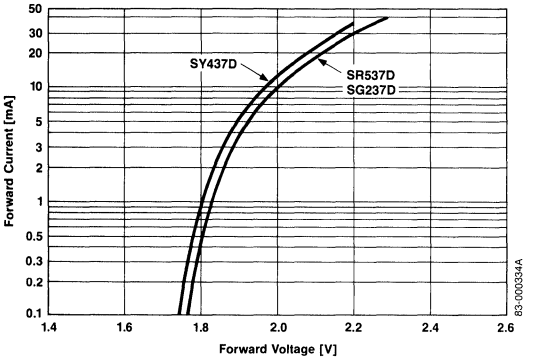
Typical Characteristics

T_A = +25°C

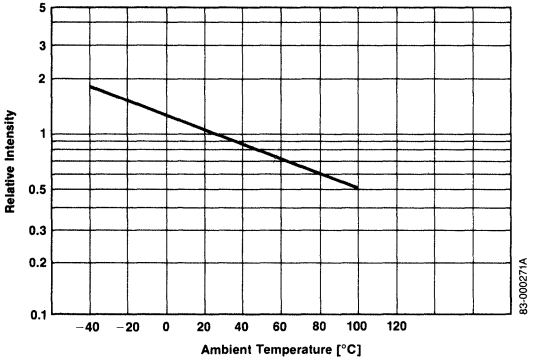
Maximum Forward Current vs Ambient Temperature



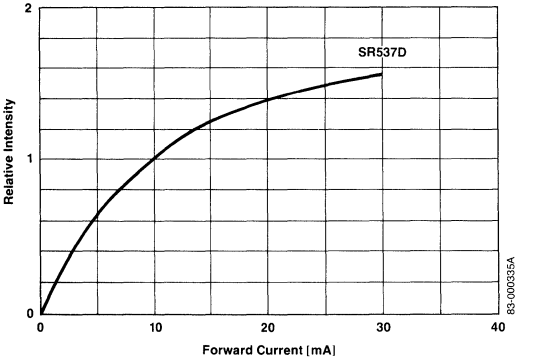
Forward Current vs Forward Voltage



Relative Intensity vs Ambient Temperature



Relative Intensity vs Forward Current



Relative Intensity vs Forward Current