

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.

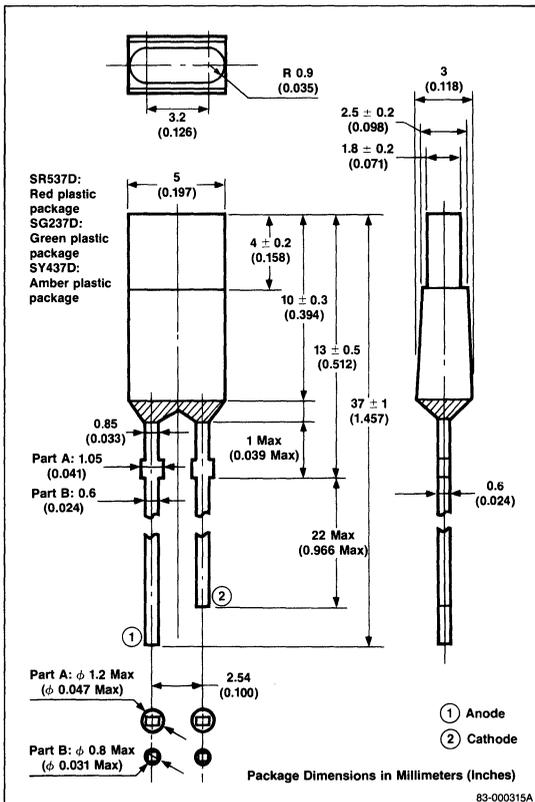
Features

- 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

$T_A = +25^\circ\text{C}$

Power Dissipation, P_D	60/100mW
Forward Current, I_F	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

$T_A = +25^\circ\text{C}$

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

Typical Characteristics

T_A = +25°C

