

Description

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

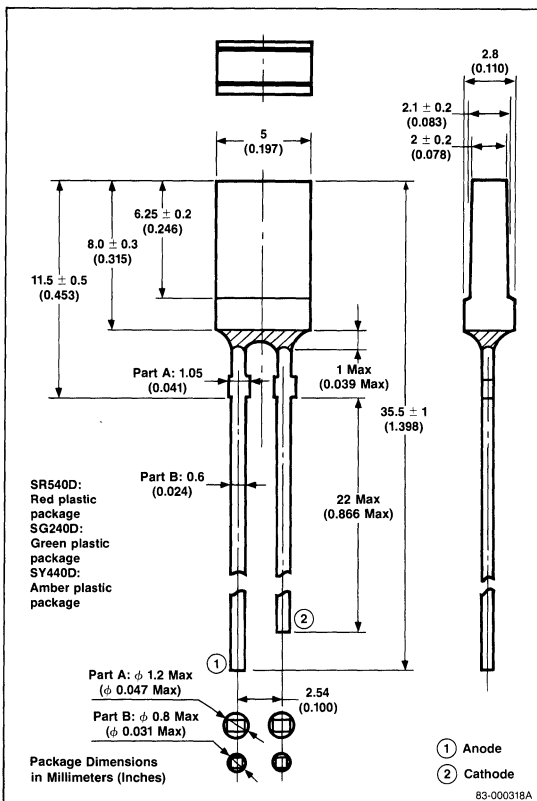
Features

- Flat rectangular 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. SR540D/SG240D, SY440D

Electro-Optical Characteristics

Parameters	Symbol	Limits			Unit	Test Conditions
		Min	Typ	Max		
Forward Voltage						
SR540D	V_F	2.0	2.5		V	$I_F = 10\text{mA}$
SG240D	V_F	2.0	2.5		V	$I_F = 10\text{mA}$
SY440D	V_F	2.0	2.4		V	$I_F = 10\text{mA}$
Reverse Current						
SR540D	I_R	0.01	10		μA	$V_R = 4.5\text{V}$
SG240D	I_R	0.01	10		μA	$V_R = 4.5\text{V}$
SY440D	I_R	0.01	10		μA	$V_R = 4.5\text{V}$
Capacitance						
SR540D	C_T	100			pF	$V = 0$, $f = 1.0\text{MHz}$
SG240D	C_T	100			pF	$V = 0$, $f = 1.0\text{MHz}$
SY440D	C_T	60			pF	$V = 0$, $f = 1.0\text{MHz}$
Peak Emission Wavelength						
SR540D	λ_{PEAK}	695			nm	$I_F = 10\text{mA}$
SG240D	λ_{PEAK}	565			nm	$I_F = 10\text{mA}$
SY440D	λ_{PEAK}	590			nm	$I_F = 10\text{mA}$
Spectral Line Half Width						
SR540D	$\Delta\lambda$	100			nm	$I_F = 10\text{mA}$
SY240D	$\Delta\lambda$	40			nm	$I_F = 10\text{mA}$
SR440D	$\Delta\lambda$	40			nm	$I_F = 10\text{mA}$
Luminous Intensity						
SR540D	I_V	0.3	0.8		mcd	$I_F = 10\text{mA}$
SG240D	I_V	0.7	1.5		mcd	$I_F = 10\text{mA}$
SY440D	I_V	0.7	1.5		mcd	$I_F = 10\text{mA}$

Typical Characteristics

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

