

Description

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

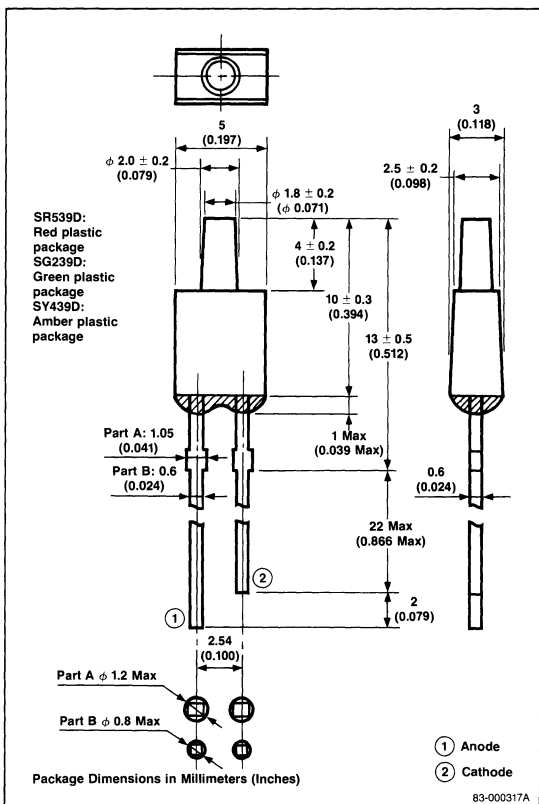
Features

- ☐ Flat circular 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. SR539D/SG239D, SY439D

Electro-Optical Characteristics

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

Parameters	Symbol	Limits			Unit	Test Conditions
		Min	Typ	Max		
Forward Voltage						
SR539D	V _F		2.0	2.5	V	I _F = 10mA
SG239D	V _F		2.0	2.5	V	I _F = 10mA
SY439D	V _F		2.0	2.4	V	I _F = 10mA
Reverse Current						
SR539D	I _R		0.01	10	μA	V _R = 4.5V
SG239D	I _R		0.01	10	μA	V _R = 4.5V
SY439D	I _R		0.01	10	μA	V _R = 4.5V
Capacitance						
SR539D	C _T		100		pF	V = 0, f = 1.0MHz
SG239D	C _T		100		pF	V = 0, f = 1.0MHz
SY439D	C _T		60		pF	V = 0, f = 1.0MHz
Peak Emission Wavelength						
SR539D	λ _{PEAK}		695		nm	I _F = 10mA
SG239D	λ _{PEAK}		565		nm	I _F = 10mA
SY439D	λ _{PEAK}		590		nm	I _F = 10mA
Spectral Line Half Width						
SR539D	Δλ		100		nm	I _F = 10mA
SY239D	Δλ		40		nm	I _F = 10mA
SR439D	Δλ		40		nm	I _F = 10mA
Luminous Intensity						
SR539D	I _V	0.2	0.5		mcd	I _F = 10mA
SG239D	I _V	0.2	0.7		mcd	I _F = 10mA
SY439D	I _V	0.2	0.7		mcd	I _F = 10mA

Typical Characteristics

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

