SG236D, SY436D, SR536D
GREEN, AMBER, RED
FASHION LEDs

NEPCO SERIES

Description

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

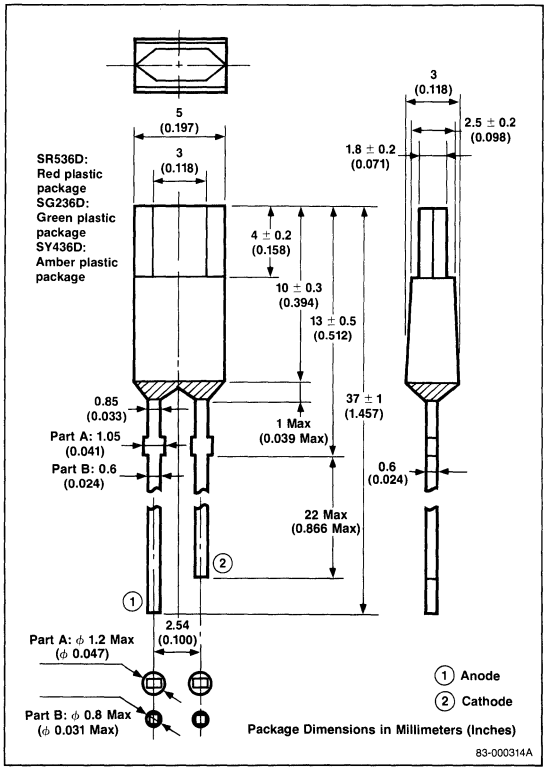
Features

- ☐ Flat hexagonal 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. SR536D/SG236D, SY436D

Electro-Optical Characteristics

T_A = +25°C

Parameters	Symbol	Limits Min	Typ	Max	Unit	Test Conditions
Forward Voltage						
SR536D	V_F		2.0	2.5	V	I_F = 10mA
SG236D	V_F		2.0	2.5	V	I_F = 10mA
SY436D	V_F		2.0	2.4	V	I_F = 10mA
Reverse Current						
SR536D	I_R		0.01	10	μA	V_R = 4.5V
SG236D	I_R		0.01	10	μA	V_R = 4.5V
SY436D	I_R		0.01	10	μA	V_R = 4.5V
Capacitance						
SR536D	C_T		100		pF	V = 0, f = 1.0MHz
SG236D	C_T		100		pF	V = 0, f = 1.0MHz
SY436D	C_T		60		pF	V = 0, f = 1.0MHz
Peak Emission Wavelength						
SR536D	λ_{PEAK}		695		nm	I_F = 10mA
SG236D	λ_{PEAK}		565		nm	I_F = 10mA
SY436D	λ_{PEAK}		590		nm	I_F = 10mA
Spectral Line Half Width						
SR536D	$\Delta\lambda$		100		nm	I_F = 10mA
SY236D	$\Delta\lambda$		40		nm	I_F = 10mA
SR436D	$\Delta\lambda$		40		nm	I_F = 10mA
Luminous Intensity						
SR536D	I_V	0.2	0.5		mcd	I_F = 10mA
SG236D	I_V	0.2	0.7		mcd	I_F = 10mA
SY436D	I_V	0.2	0.7		mcd	I_F = 10mA

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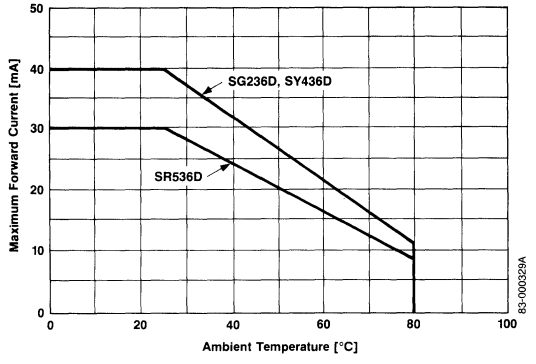
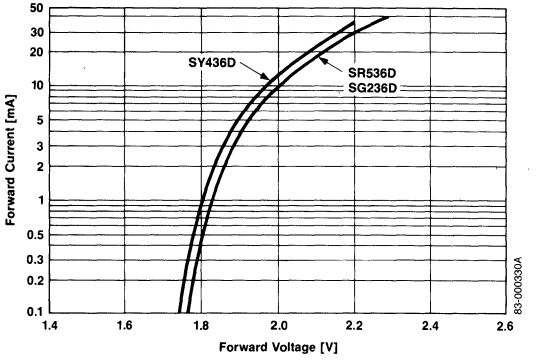
Typical Characteristics

T_A = +25°C

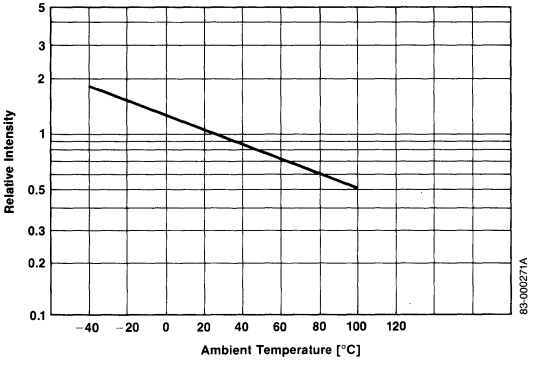
Maximum Forward Current vs Ambient Temperature



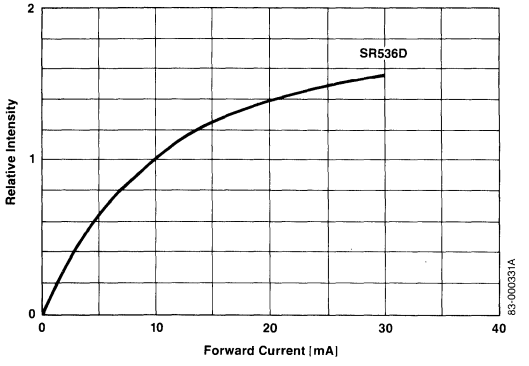
Forward Current vs Forward Voltage



Relative Intensity vs Ambient Temperature



Relative Intensity vs Forward Current



Relative Intensity vs Forward Current