SG206D/T, SY406D/T, SR506C/D
GREEN, AMBER, RED
GaP LEDs
NEPOC SERIES

Description

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

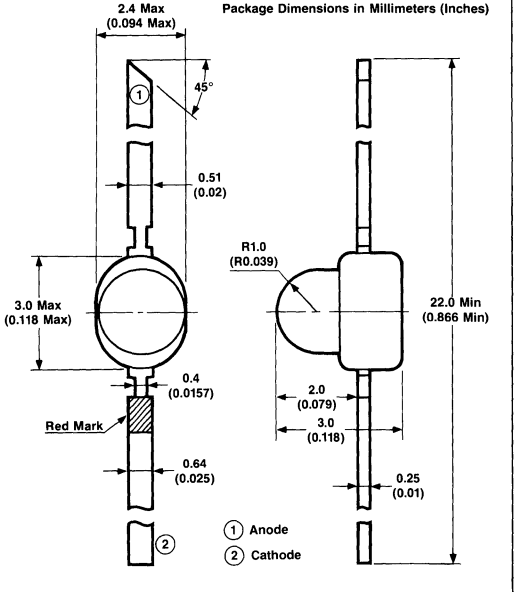
Features

- ☐ Small size
- ☐ Low cost
- ☐ Easily assembled in arrays
- ☐ Bright red, green or amber
- ☐ Compatible with integrated circuits

Applications

- ☐ Visual displays
- ☐ Radio and stereo equipment indicators
- ☐ Portable equipment indicators
- ☐ Camera indicators

Package Dimensions



SR506D: Red diffused plastic lens
SR506C: Clear plastic lens
SG206D: Green diffused plastic lens
SG206T: Green transparent plastic lens
SY406D: Amber diffused plastic lens
SY406T: Amber transparent plastic lens

83-000306A

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. SR506D, SR506C/SG206D, SG206T, SY406D, SY406T.

Electro-Optical Characteristics

T_A = +25°C

Parameters	Symbol	Limits Min	Typ	Max	Unit	Test Conditions
Forward Voltage						
SR506D/SR506C	V_F		2.0	2.6	V	I_F = 10mA
SG206D/SG206T	V_F		2.0	2.6	V	I_F = 10mA
SY406D/SY406T	V_F		2.0	2.5	V	I_F = 10mA
Reverse Current						
SR506D/SR506C	I_R		0.01	10	μA	V_R = 4.5V
SG206D/SG206T	I_R		0.01	10	μA	V_R = 4.5V
SY406D/SY406T	I_R		0.01	10	μA	V_R = 4.5V
Capacitance						
SR506D/SR506C	C_T		100		pF	V = 0, f = 1.0MHz
SG206D/SG206T	C_T		100		pF	V = 0, f = 1.0MHz
SY406D/SY406T	C_T		100		pF	V = 0, f = 1.0MHz
Peak Emission Wavelength						
SR506D/SR506C	λ_{PEAK}		695		nm	I_F = 10mA
SG206D/SG206T	λ_{PEAK}		565		nm	I_F = 10mA
SY406D/SY406T	λ_{PEAK}		590		nm	I_F = 10mA
Spectral Line Half Width						
SR506D/SR506C	$\Delta\lambda$		100		nm	I_F = 10mA
SY206D/SY206T	$\Delta\lambda$		40		nm	I_F = 10mA
SG406D/SG406T	$\Delta\lambda$		40		nm	I_F = 10mA
Luminous Intensity						
SR506D/SR506C	I_V	0.5/1	1/2		mcd	I_F = 10mA
SG206D/SG206T	I_V	0.5/1	1.5/3		mcd	I_F = 10mA
SY406D/SY406T	I_V	0.5/1	1.5/3		mcd	I_F = 10mA

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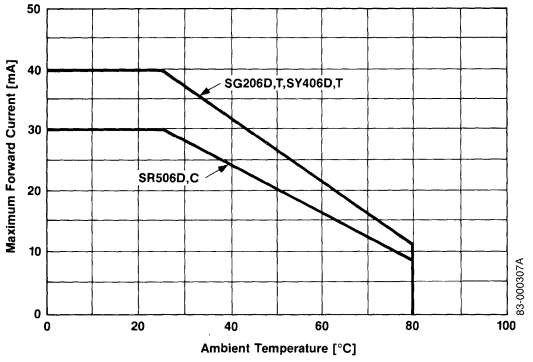
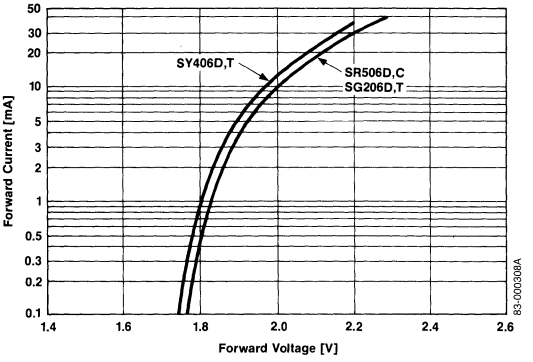
Typical Characteristics

T_A = +25°C

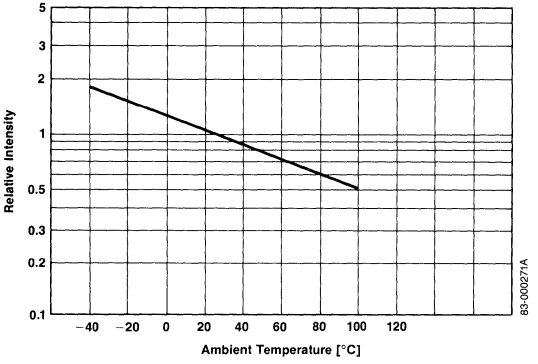
Maximum Forward Current vs Ambient Temperature



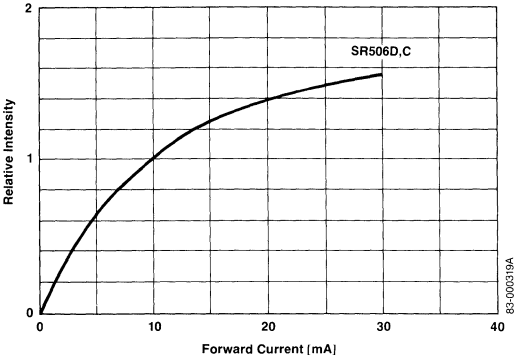
Forward Current vs Forward Voltage



Relative Intensity vs Ambient Temperature



Relative Intensity vs Forward Current



Relative Intensity vs Forward Current