SR615C/D/W RED GaAsP(N) HIGH INTENSITY LEDs

NEPOC SERIES

Description

The SR615D, SR615C and SR615W are medium-size plastic-resin-encapsulated LED lamps from which brilliant red light is emitted uniformly and intensely in proportion to the forward current (I_F). They are suitable for use as bright, distinguishable illuminators or indicators on the panels of audio-video equipment and elsewhere.

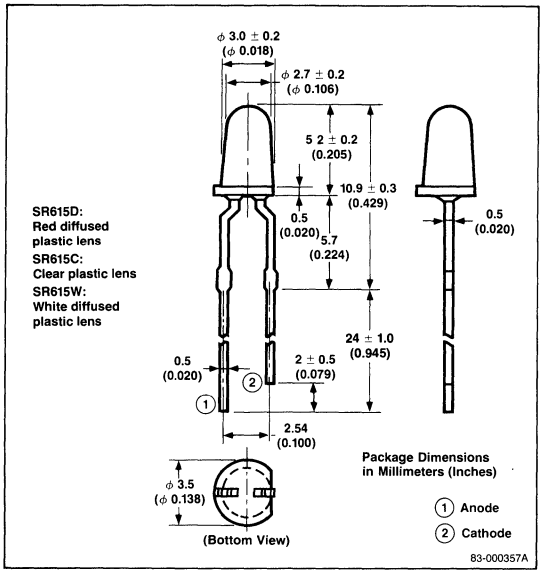
Features

- ☐ High intensity
- ☐ Bright red
- ☐ Long lead
- ☐ Low cost
- ☐ Compatible with integrated circuits

Applications

- ☐ Visual displays
- ☐ Guard systems
- ☐ Mobile equipment indicators
- ☐ Stereo equipment indicators
- ☐ Transceiver indicators

Package Dimensions



Absolute Maximum Ratings

$T_A = +25°C$

Power Dissipation, P_D	100mW
Forward Current, I_F	40mA
Reverse Voltage, V_R	5V
Junction Temperature, T_J	100°C
Storage Temperature, T_{STG}	−40°C to +100°C

Electro-Optical Characteristics

$T_A = +25°C$

Parameters	Symbol	Limits Min	Typ	Max	Unit	Test Conditions
Forward Voltage	V_F		2.0	2.5	V	I_F = 10mA
Reverse Current	I_R		0.01	10	μA	V_R = 4.5V
Capacitance	C_T		100		pF	V = 0, f = 1.0MHz
Peak Emission Wavelength	λ_{PEAK}		630		nm	I_F = 10mA
Spectral Line Half Width	$\Delta\lambda$		40		nm	I_F = 10mA
Luminous Intensity (SR615D, SR615W)	I_V	3	8		mcd	I_F = 10mA
Luminous Intensity (SR615C)	I_V	6	16		mcd	I_F = 10mA

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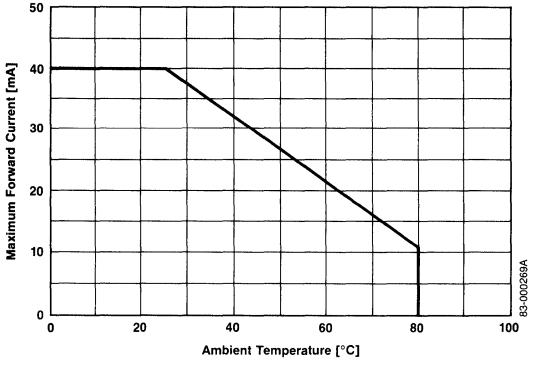
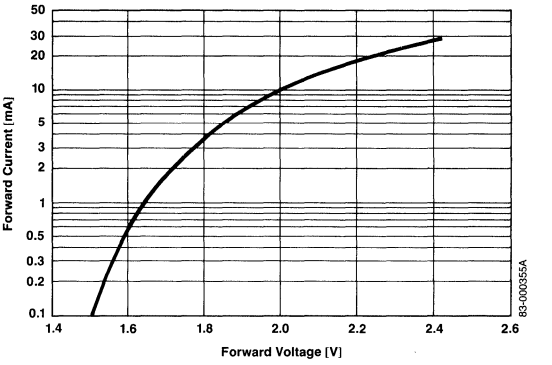
Typical Characteristics

T_A = +25°C

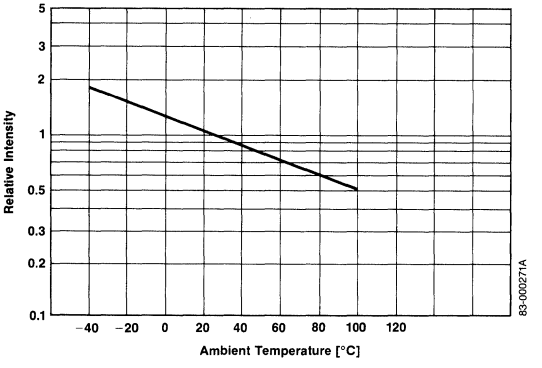
Maximum Forward Current vs Ambient Temperature



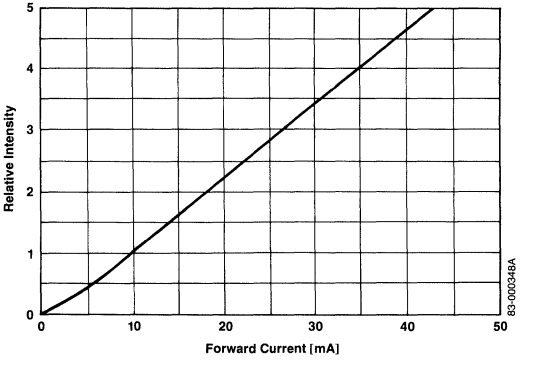
Forward Current vs Forward Voltage



Relative Intensity vs Ambient Temperature



Relative Intensity vs Forward Current



Spatial Distribution