

NEC

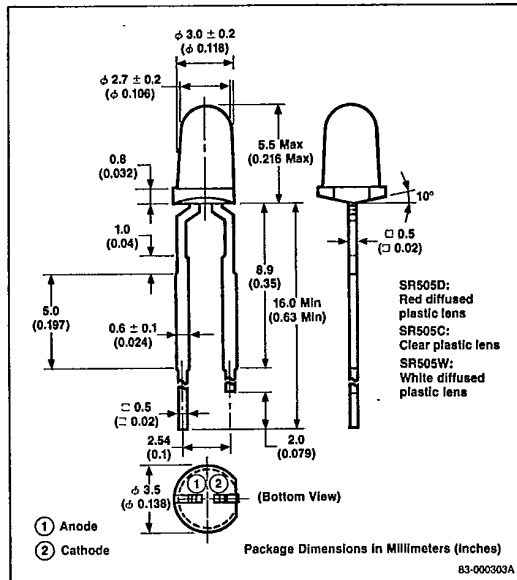
NEC Electronics Inc.

72C 09177 D T-41-21

SR505C/D/W
RED
GaP HIGH
INTENSITY LEDs
 NEPOC SERIES

Description

The SR505D, SR505C and SR505W are medium-size, full resin-molded LED lamps which emit brilliant red light at comparatively low current. They are especially suitable for electronic devices such as battery-driven equipment and audio equipment requiring low-power displays.

Package Dimensions**Features**

- Low cost
- High intensity at low current
- Compatible with integrated circuits
- Bright red

Applications

- Radio and stereo equipment indicators
- Visual displays
- Guard systems
- Measuring instruments, terminals
- Optical switching light sources

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

Power Dissipation, P_D	60mW
Forward Current, I_F	30mA
Reverse Voltage, V_R	5V
Junction Temperature, T_J	100°C
Storage Temperature, T_{STG}	-40°C to +100°C

Electro-Optical Characteristics $T_A = +25^\circ\text{C}$

Parameters	Symbol	Limits			Unit	Test Conditions
		Min	Typ	Max		
Forward Voltage	V_F	2.0	2.5		V	$I_F = 10\text{mA}$
Reverse Current	I_R	0.01	10		μA	$V_R = 4.5$
Capacitance	C_T	50			pF	$V = 0$, $f = 1.0\text{MHz}$
Peak Emission Wavelength	λ_{PEAK}	695			nm	$I_F = 10\text{mA}$
Spectral Line Half Width	$\Delta\lambda$	100			nm	$I_F = 10\text{mA}$
Luminous Intensity (SR505D, SR505W)	I_V	1	3.5		mcd	$I_F = 10\text{mA}$
Luminous Intensity (SR505C)	I_V	2	6		mcd	$I_F = 10\text{mA}$

SR505C/D/W

Typical Characteristics

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

