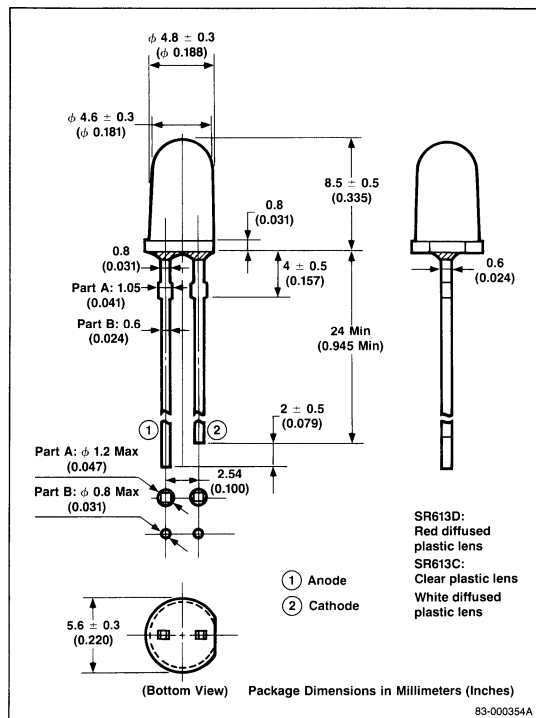


Description

The SR613D, SR613C and SR613W are full resin-molded LED lamps which emit brilliant, uniform red light proportional to the forward current (I_F). They are especially suitable for electronic equipment in audio applications which require bright, vivid displays. The SR613C is especially suitable as a backlighting source.

Package Dimensions



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

Absolute Maximum Ratings

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

Power Dissipation, P_D	100mW
Forward Current, I_F	50mA
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	2.4	V	$I_F = 10\text{mA}$
Reverse Current	I_R		0.01	10	μA	$V_R = 4.5\text{V}$
Capacitance	C_T		100		pF	$V = 0$, $f = 1.0\text{MHz}$
Peak Emission Wavelength	λ_{PEAK}		630		nm	$I_F = 10\text{mA}$
Spectral Line Half Width	$\Delta\lambda$		40		nm	$I_F = 10\text{mA}$
Luminous Intensity (SR613D, SR613W)	I_V	3	7		mcd	$I_F = 10\text{mA}$
Luminous Intensity (SR613C)	I_V	10	20		mcd	$I_F = 10\text{mA}$

Typical Characteristics

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