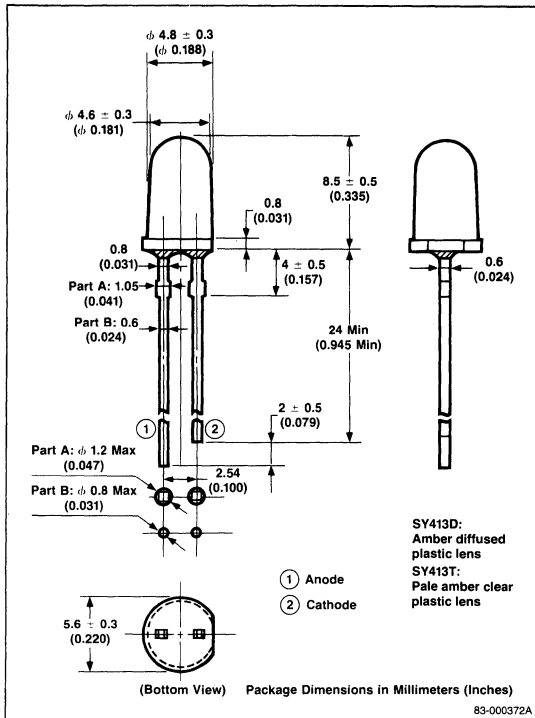


Description

The SY413D and SY413T are full resin-molded LED lamps which emit bright, brilliant, uniform amber light proportional to the forward current (I_F). They are especially suitable for electronic equipment which require bright, vivid displays. The SY413T is especially suitable as a backlighting source.

Package Dimensions



Features

- High intensity
- Bright amber
- 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	40mA
Reverse Voltage, V_R	5V
Junction Temperature, T_J	100°C
Storage Temperature, T_{STG}	-40°C to +100°C

Electro-Optical Characteristics

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	$V = 4.5\text{V}$
Capacitance	C_T	60			pF	$V = 0, f = 1.0\text{MHz}$
Peak Emission Wavelength	λ_{PEAK}	590			nm	$I_F = 10\text{mA}$
Spectral Line Half Width	$\Delta\lambda$	40			nm	$I_F = 10\text{mA}$
Luminous Intensity (SY413D)	I_V	4	10		mcd	$I_F = 10\text{mA}$
Luminous Intensity (SY413T)	I_V	12	30		mcd	$I_F = 10\text{mA}$

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Typical Characteristics

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

