

Description

The SY415D and SY415T are medium-size plastic resin-encapsulated LED lamps which emit brilliant amber light uniformly and intensely in proportion to the forward current (I_F). They are suitable as bright, distinguishable illuminators or indicators on the panels of audio/video equipment and elsewhere.

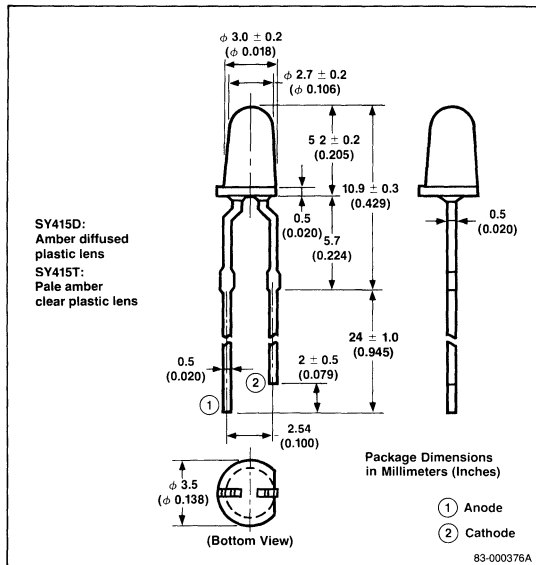
Features

- 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

Package Dimensions



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

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

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	$V_R = 4.5\text{V}$
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 (SY415D)	I_V	4	10		mcd	$I_F = 10\text{mA}$
Luminous Intensity (SY415T)	I_V	7	20		mcd	$I_F = 10\text{mA}$

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Typical Characteristics

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

