

SIEMENS

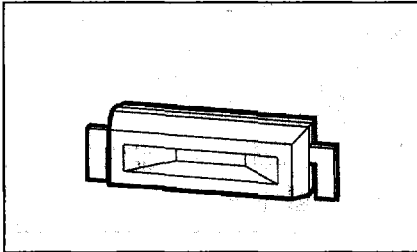
SUPER-RED LS C876

AMBER LA C876

ORANGE LO C876

YELLOW LY C876

Hyper-Bright Mini SIDELED® Lamp



FEATURES

- **SIDELED:** Surface mount LED lamp
- **White package, colorless clear window**
- **Use as optical indicator**
- **For backlighting, optical coupling into light pipes and lenses**
- **Suitable for all SMT assembly and soldering methods**
- **Available taped on reel (8 mm tape)**

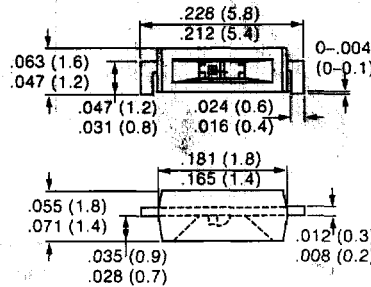
Maximum Ratings

Operating/Storage Temperature Range (T_{OP} T_{STG}).....		-55 to +100°C
Junction Temperature (T_J).....		+100°C
Forward Current (I_F)		
LS, LA, LO		30 mA
LY		20 mA
Surge Current (I_{FM})		
$t \leq 10 \mu s$ $D=0.005$		to be defined
Reverse Voltage ⁽¹⁾ (V_R).....		3 V
Power Dissipation (P_{TOT}) $T_A \leq 25^\circ C$		
LS, LA, LO		80 mW
LY		55 mW
Thermal Resistance, Junction/Air, Mounted on PC Board ⁽²⁾ (pad size 16 mm ²) (R_{THJA}).....		630 K/W

Note:

1. Reverse biasing should be avoided
2. PC board: FR4

Dimensions in inches (mm)



GPL06930

Characteristics $T_A=25^\circ C$, all values typical unless otherwise noted

Parameter	Sym.	LS	LA	LO	LY	Unit	Condition	
Peak Wavelength	λ_{PEAK}	645	622	610	591	nm	$I_F=20$ mA	
Dominant Wavelength	λ_{DOM}	632	615	605	587			
Spectral Bandwidth, 50% I_{RELMAX}	$\Delta\lambda$	16		15				
Viewing Angle, 50% I_V	2ϕ	120				Deg.		
Forward Voltage	V_F	2 (≤ 2.6)				V	$I_F=20$ mA	
Reverse Current	I_R	0.01 (≤ 10)				μA	$V_R=3$ V	
Temperature coefficient	λ_{DOM}	TC_λ	0.014	0.062	0.067	0.096	nm/K	$I_F=20$ mA
	λ_{PEAK}		0.14	0.13				
	V_F	TC_V	-1.95	-1.78	-1.67	-2.51	mV/K	
Part Number	Luminous Intensity, I_V mcd	Luminous Flux, Φ_V mlm		Condition				
LS C876-NO	≥ 25 (60 typ.)	180		$I_F=20$ mA				
LA/LO/LY C876-PO	≥ 40 (100 typ.)	300						

*Luminous Intensity ratio in one packaging unit $I_{VMAX}/I_{VMIN} \leq 2.0$.

See graph numbers OHL00235, OHL01660, OHL00232, OHL00248, OHL00233, OHL00238, OHL00320, OHL00316 beginning on page 4-92.

LED Lamps