LA-6000 series

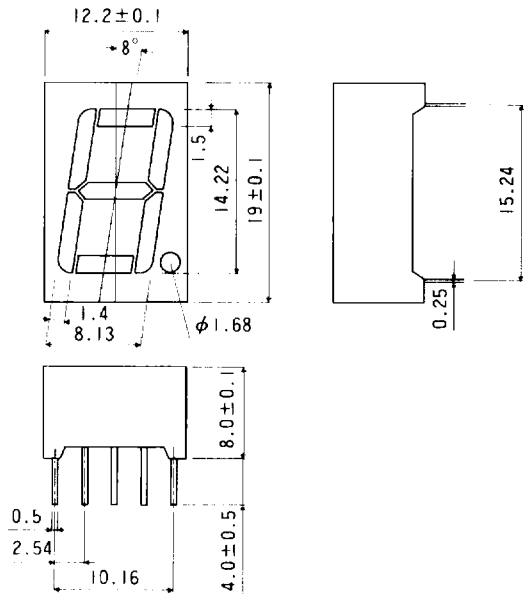
Numeric display, single digit, single color, 7 segment

The LA-6000 series are single digit numeric display light-emitting diodes that can be used in bright locations.

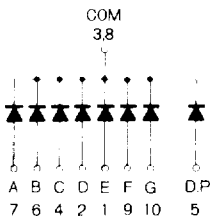
Features

- outer dimensions of package: 12.2 × 19 × 8 mm
- character height: 14.22 mm (0.6 in.)
- available in red, orange, yellow, and green
- package has black-painted surface, segments are tinted
- anode and cathode-common types available for each color
- high luminous intensity and clear display
- simple pin arrangement

Dimensions (Units : mm)



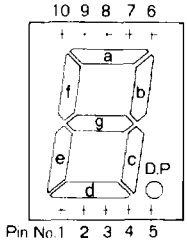
Example (common cathode)



Selection guide

Part no. Color & wavelength Common pin Availability	LA-6760 Red, 650 nm Anode semi-standard	LA-6660 Orange, 610 nm Anode semi-standard	LA-6860 Yellow, 585 nm Anode semi-standard	LA-6460 Green, 563nm Anode semi-std
Part no. Color & wavelength Common pin Availability	LA-6780 Red, 650 nm Cathode semi-standard	LA-6680L Orange, 610 nm Cathode semi-standard	LA-6880 Yellow, 585 nm Cathode semi-standard	LA-6480 Green, 563nm Cathode semi-std

Pin connections



Pin no.	Function
1	Segment "e"
2	Segment "d"
3	Common
4	Segment "c"
5	Decimal point
6	Segment "b"
7	Segment "a"
8	Common
9	Segment "f"
10	Segment "g"

Absolute maximum ratings (T_a = 25°C) (Common for all colors)

Parameter	Symbol	Limits	Unit	Conditions
Power dissipation	P_d	480	mW	
Power dissipation per segment	P_d /seg	60	mW	
Forward current	I_F	20	mA	
Peak forward current	I_{FP}	60	mA	Pulse width 1 ms, duty 20%
Reverse voltage	V_R	5	V	
Operating temperature	T_{opr}	−25 ~ +85	°C	
Storage temperature	T_{stg}	−30 ~ +100	°C	

Electro-optical characteristics (T_a = 25°C)

Parameter	Sym	LA-6760 LA-6780			LA-6660 LA-6680			LA-6860 LA-6880			LA-6460 LA-6480			Unit	Conditions
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max		
Forward voltage	V_F		2.0	2.8		2.0	2.8		2.1	2.8		2.1	2.8	V	I_F = 10 mA
Reverse current	I_R			100			100			100			100	μA	V_R = 3 V
Luminous intensity per digit	I_V	3.6	10		3.6	10		3.6	10		9	25		mcd	I_F = 10 mA
Peak wavelength	λ_p		650			610			585			563		nm	I_F = 10 mA
Spectral half-width	$\Delta\lambda$		40			40			40			40		nm	I_F = 10 mA