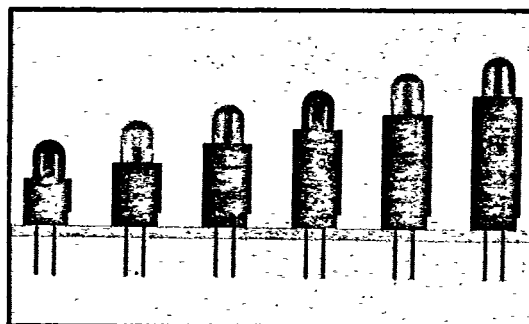
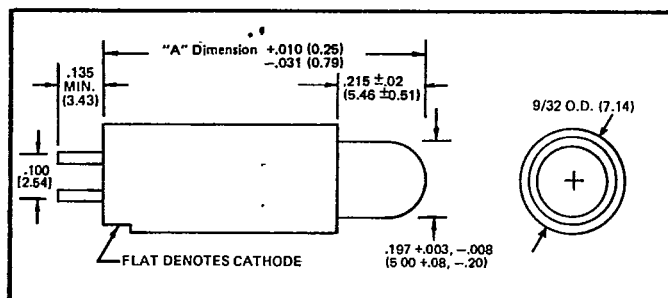


**SUPER
BRIGHT**



Variable Height LED Circuit Board Indicators 561 series



() Metric dimension in mm.

Ordering Information

lamp type height
561 - 51 01 - 050
series electrical

Lamp Type

51	Red diffused
52	Green diffused
53	Yellow diffused
54	Amber diffused
55	Red, water clear
56†	Green, water clear
57	Yellow, water clear
58	Amber, water clear

† Not available in 090 or 100 height.

Features

- Super bright lamps in a choice of four colors: red, green, yellow and amber in both diffused and water clear packages.
- Replaces costly and time consuming use of separate spacer and LED.
- LED firmly held by spacer, — no additional fixturing or glueing necessary.
- Choice of six heights for mounting LED above P.C. Board.
- Spacer provides for exact LED alignment during wave soldering.
- Cathode is clearly identified on package.

Applications

- Back panel illumination.
- Circuit board indicator.
- LED indicator.

Electrical

01	Requires external resistor
----	----------------------------

Height "A" dimension

050	0.500 (12.70)
060	0.600 (15.24)
070	0.700 (17.78)
080	0.800 (20.32)
090	0.900 (22.86)
100	1.000 (25.40)

Dialight reserves the right to make changes at anytime in order to improve design and to supply the best product possible.

SUPER BRIGHT

Variable Height

LED Circuit Board Indicators

561 series

Maximum Ratings @ $T_A = 25^\circ \text{C}$

Lamp Type	51, 55 (Red)	52, 56 (Green)	53, 57 (Yellow)	54, 58 (Amber)
Power Dissipation	100mW	125mW		
Derate Linearly from 25° C	.67mA/° C			
Forward DC Current	50mA			
Operating Temperature	−30° C to +85° C			
Storage Temperature	−30° C to +100° C			
Lead Soldering Temperature	230° C for 5 sec. (1/16" from case)			

Operating Characteristics @ $T_A = 25^\circ \text{C}$

Symbol	Characteristics	Lamp Type	Min.	Typ.	Max.	Units	Test Conditions
IV	Luminous Intensity	51 (Red Diffused)	20	30		mcd	$I_F = 20\text{mA}$
		52 (Green Diffused)	8	12		mcd	$I_F = 20\text{mA}$
		53 (Yellow Diffused)	30	45		mcd	$I_F = 20\text{mA}$
		54 (Amber Diffused)	16	24		mcd	$I_F = 20\text{mA}$
		55 (Red, water clear)	80	160		mcd	$I_F = 20\text{mA}$
		56 (Green, water clear)	50	80		mcd	$I_F = 20\text{mA}$
		57 (Yellow, water clear)	80	160		mcd	$I_F = 20\text{mA}$
		58 (Amber, water clear)	60	90		mcd	$I_F = 20\text{mA}$
λ_{pk}	Wavelength	51		660		nm	Measurement at Peak
		52		555		nm	Measurement at Peak
		53		570		nm	Measurement at Peak
		54		605		nm	Measurement at Peak
		55		660		nm	Measurement at Peak
		56		555		nm	Measurement at Peak
		57		570		nm	Measurement at Peak
		58		605		nm	Measurement at Peak
VF	Forward Voltage	51		1.7	2.0	V	$I_F = 20\text{mA}$
		52		2.1	2.5	V	$I_F = 20\text{mA}$
		53		2.1	2.5	V	$I_F = 20\text{mA}$
		54		2.2	2.5	V	$I_F = 20\text{mA}$
		55		1.7	2.0	V	$I_F = 20\text{mA}$
		56		2.1	2.5	V	$I_F = 20\text{mA}$
		57		2.1	2.5	V	$I_F = 20\text{mA}$
		58		2.2	2.5	V	$I_F = 20\text{mA}$
VBR	Reverse Breakdown Voltage	All	4			V	$I_R = 100\mu\text{A}$
$2\Theta_{1/2}$	Angle of Half Intensity	51		70°		degrees	†
		52		50°		degrees	†
		53		50°		degrees	†
		54		45°		degrees	†
		55		30°		degrees	†
		56		25°		degrees	†
		57		25°		degrees	†
		58		20°		degrees	†

† $\Theta_{1/2}$ is the off-angle at which the luminous intensity is half the axial luminous intensity.

Mouser Electronics

Authorized Distributor

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Dialight:

561-5801-050