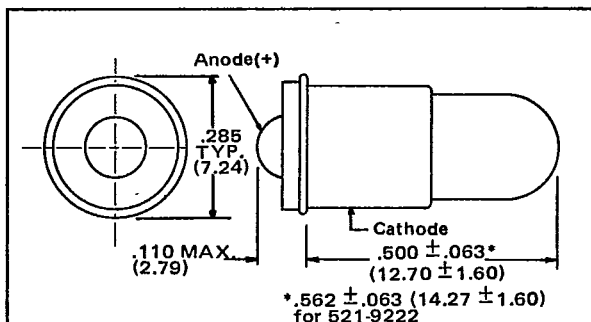


T-13/4 LED Lamp with Midget Flange Base

521-9181 Red – Red Diffused
 521-9201 Green – Green Non-Diffused
 521-9208 Yellow – Yellow Non-Diffused
 † 521-9222 Red – Clear Non-Diffused
 521-9223 Red – Clear Non-Diffused

† With integral resistor for 5V operation.



() Metric dimension in mm.

Features

- High luminous intensity
- Low cost
- Low power consumption - IC compatible
- Vibration/shock resistant
- Solid state reliability - life measured in years
- Wide viewing angle
- Interchangeable with midget flange base incandescent lamps when used with appropriate series resistor. See table of typical resistor values on reverse side.

These based Diode-Lite lamps are available in red, green and yellow, and are suggested for use in indicator light assemblies with transparent lens caps only.

Ordering Information

Part number	Lens color	Fwd. Volt (typ.)	maximum Fwd. current	(typ.) Luminous intensity	Wavelength
521-9181*	Red Diffused	1.7 @ I _F = 20mA	50mA	2mcd	665nm
521-9201*	Green Non-Diffused	2.3 @ I _F = 20mA	50mA	4mcd	565nm
521-9208*	Yellow Non-Diffused	2.3 @ I _F = 20mA	50mA	4mcd	570nm
521-9222†	Clear Non-Diffused	5.0 @ I _F = 15mA	20mA	2mcd	655nm
521-9223*	Clear Non-Diffused	1.7 @ I _F = 20mA	50mA	3mcd	665nm

* Requires external series resistor. See table for suggested values.

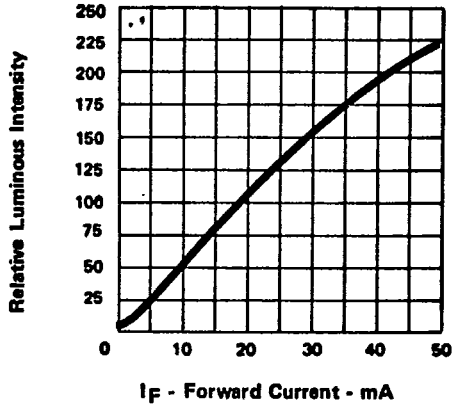
† Includes integral resistor for 5V operation.

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

T-1 3/4 LED Lamp with Midget Flange Base

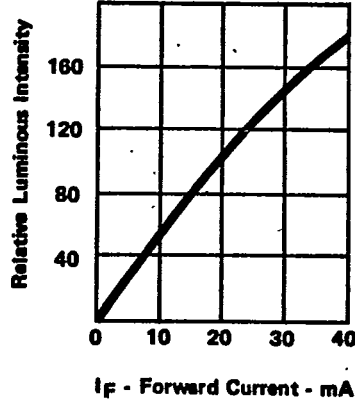
521-9181
521-9223

Relative Luminous Intensity vs.
Forward Current



521-9201
521-9208

Relative Luminous Intensity vs.
Forward Current



521-9181 521-9223

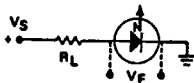
Typical Resistor Values

DC Voltage	Current @ 10 mA	Current @ 20 mA
	R_L	R_L
3.6	200 Ω	100 Ω
5	330 Ω	180 Ω
6	430 Ω	220 Ω
10	820 Ω	390 Ω
14	1200 Ω	620 Ω
28	2700 Ω	1300 Ω

521-9201 521-9208

Typical Resistor Values

DC Voltage	Current @ 10 mA	Current @ 20 mA
	R_L	R_L
3.6	150 Ω	75 Ω
5	330 Ω	150 Ω
6	390 Ω	180 Ω
10	820 Ω	390 Ω
14	1200 Ω	620 Ω
28	2700 Ω	1300 Ω



$$R_L = (V_S - V_F) / I_F$$

CHOOSE I_F FOR
DESIRED BRIGHTNESS