

SIEMENS

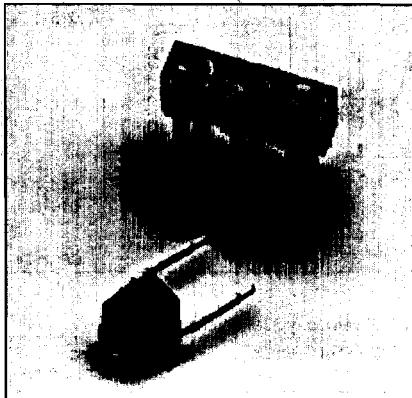
SINGLE LG/LR/LY Z181

2 to 6 DIODE ARRAYS LG Z182-186

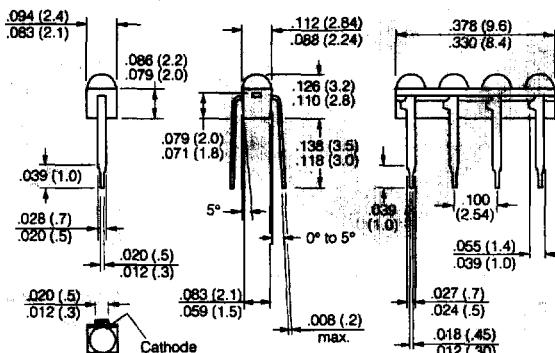
8, 10 DIODE ARRAYS LG Z188, 180

2 to 10 DIODE ARRAYS LR Z182-189/180

2 mm LED Lamp



Dimensions in inches (mm)



VEX 6726

FEATURES

- Emission color
 - LR : Red
 - LG : Green
 - LY: Yellow
- Miniature Size
- LR: Single lamp and 2 to 10 diode arrays
- 0.100" (2.54 mm) lead spacing
- End stackable to arrays of any length
- IC compatible

Maximum Ratings (Individual Diode)

Operating/Storage Temperature

Range (T_{OP}, T_{STG}) -40°C to +80°C

Junction Temperature (T_J) 100°C

Soldering Temperature, 2 mm from case bottom
(T_S), $t \leq 3$ sec 230°C

Forward Current (I_F) 30 mA

Surge Current (I_{FM}) $t \leq 10 \mu s$ 0.5 A

Reverse Voltage (V_R) 5 V

Power Dissipation (P_{TOT}), $T_A=25^\circ C$ 90 mW

Thermal Resistance
Junction to Air (R_{THJA}) 750 K/W

Note: Mounted on PC board: pad size $\geq 16 \text{ mm}^2$

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

Parameter	Sym.	Value	Unit	Condition
Peak Wavelength	λ_{PEAK}	660	nm	$I_F=20 \text{ mA}$
Dominant Wavelength	λ_{DOM}	645		
Spectral Bandwidth 50% I_{RELMAX}	$\Delta\lambda$	35		
Viewing Angle, 50% I_V	2ϕ	100	Deg.	
Forward Voltage	V_F	1.6 (≤ 2)	V	$I_F=10 \text{ mA}$
Reverse Current	I_R	0.01 (≤ 10)	μA	$V_R=5 \text{ V}$
Capacitance	C_0	25	pF	$V_R=0 \text{ V}$ $f=1 \text{ MHz}$
Switching Time, I_V	10% to 90%, typ. 90% to 10%, max.	I_R t_F	120 50	ns $I_F=100 \text{ mA}$ $t_p=10 \mu s$ $R_L = 50 \Omega$
Luminous Intensity*	I_V	0.25	mcd	$I_F=10 \text{ mA}$
Part Number	No. of LEDs	Part Number	No. of LEDs	
LG/LR/LY Z181-CO	1	LG/LR Z186-CO	6	
LG/LR Z182-CO	2	LR Z187-CO	7	
LG/LR Z183-CO	3	LG/LR Z188-CO	8	
LG/LR Z184-CO	4	LR Z189-CO	9	
LG/LR Z185-CO	5	LG/LR Z180-CO	10	

* Luminous intensity ratio of one packaging unit $I_{VMAX}/I_{VMIN} \leq 2$.

See graph numbers OHL02144, OHL01732, OHL01263, OHL01757, OHL01686, OHL01687, OHL01688, OHL01689, OHL01690, OHL01691 beginning on page 4-92.