Dialight

591 SERIES

Prism® CBI®

2mA Low Current Surface Mount LED

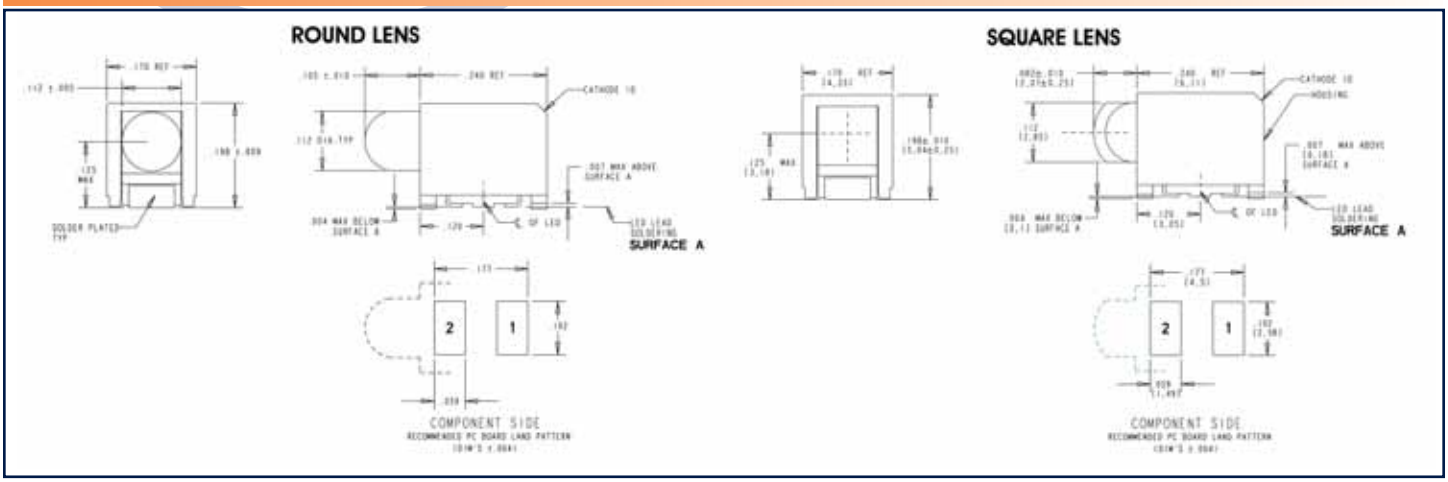
ROUND OR SQUARE LENS



FEATURES / BENEFITS

- RoHS Compliant
- Incorporates latest low current LED technology, specifically designed for surface mounting
- Compatible with automatic placement equipment
- Compatible with RoHS Compliant surface mount reflow soldering processes
- Black housing enhances contrast ratio
- Housing material meet UL-94V-0 flammability ratings
- Patented Prism design with 2mA low current LED
- Packaged in moisture barrier bags for dry packaging per IPC/JEDEC J-STD-033, moisture sensitivity level 2
- Helps to eliminate mixed technology pc board processing

SPECIFICATIONS

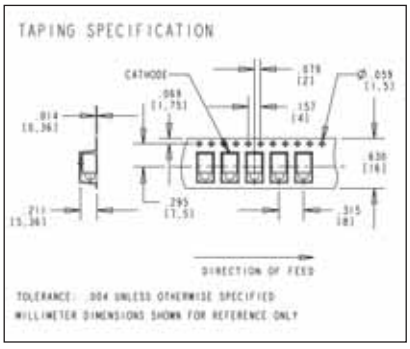


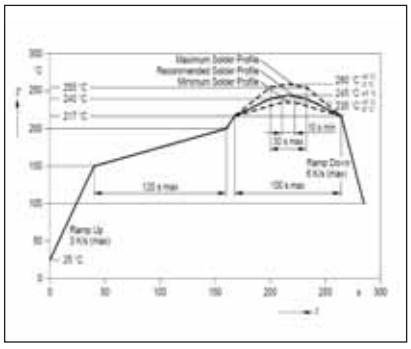
PART NUMBER CODE*

SERIES	Color	Package option		
591	2X04	X	XX	F

Lens Type

COLOR	LENS TYPE	PACKAGING OPTIONS
0 = Red **3** = Green **4** = Yellow **5** = Orange	**0** = Round **1** = Square	**02** = 20 piece strip **07** = 7" reel dia / 400pcs **13** = 13" reel dia / 1600pcs





A4703 UL REGISTERED FIRM ISO 9001 Dialight Corporation

RoHS COMPLIANT

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ROUND OR SQUARE LENS

ABSOLUTE MAXIMUM RATINGS (TA= 25°C)

PARAMETER	20	23	24	25
COLOR	Red	Green	Yellow	AlInGaP Orange
POWER DISSIPATION	50mW	50mW	50mW	50mW
FORWARD DC CURRENT	20mA	20mA	20mA	20mA
PEAK FORWARD CURRENT (t ≤ 10 µs, D=0.005)	100mA	100mA	100mA	100mA
OPERATING TEMPERATURE	-40°C To +100°C	-40°C To +100°C	-40°C To +100°C	-40°C To +100°C
STORAGE TEMPERATURE	-40°C To +100°C	-40°C To +100°C	-40°C To +100°C	-40°C To +100°C
SOLDERING TEMPERATURES IR REFLOW FOR LEAD FREE SOLDERING, RoHS	260°C (+0°C / -5°C) For 30 Seconds			

OPERATING CHARACTERISTICS (TA= 25°C)

PARAMETER	PART NO.	COLOR	MIN	TYP	MAX	UNITS	TEST COND.
Forward Voltage V_F	20	Red	1.7	1.8	2.2	V	I_F=2mA
	23	Green	1.7	1.8	2.2		
	24	Yellow	1.7	1.8	2.2		
	25	AlInGaP Orange	1.7	1.8	2.2		
Reverse Voltage V_R	20	Red		12		V	I_R=10µA
	23	Green		12			
	24	Yellow		12			
	25	AlInGaP Orange		12			
Dominant Wavelength Dom	20	Red	624	630	636	nm	
	23	Green	566	570	575		
	24	Yellow	580	587	595		
	25	AlInGaP Orange	600	606	609		
Luminous Intensity Iv Round (Square) Lens	20	Red	6 / -	11 / 40 (30 / 80)	16 / -	mcd	I_F=2mA / I_F=10mA
	23	Green	3 / -	5 / 22 (10 / 40)	8 / -		
	24	Yellow	8 / -	14 / 60 (40 / 140)	20 / -		
	25	AlInGaP Orange	9 / -	16 / 70 (55 / 150)	24 / -		
Viewing Angle (2Ø 1/2) Round (Square) Lens	20	Red		50 (40)		deg.	
	23	Green		50 (40)			
	24	Yellow		50 (40)			
	25	AlInGaP Orange		50 (40)			

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