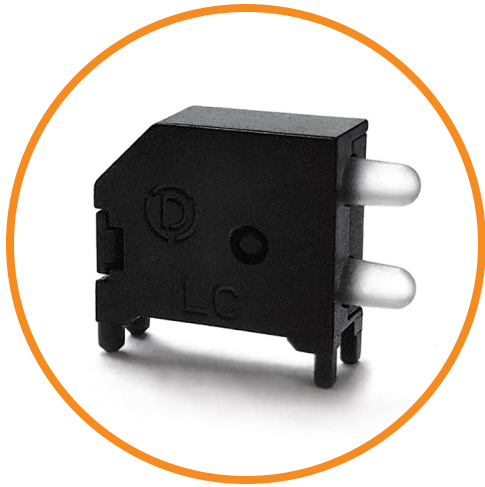


596 Series Prism® Surface Mount LED

1.6mm Round Lens, 20mA and 2mA



Certifications & Ratings

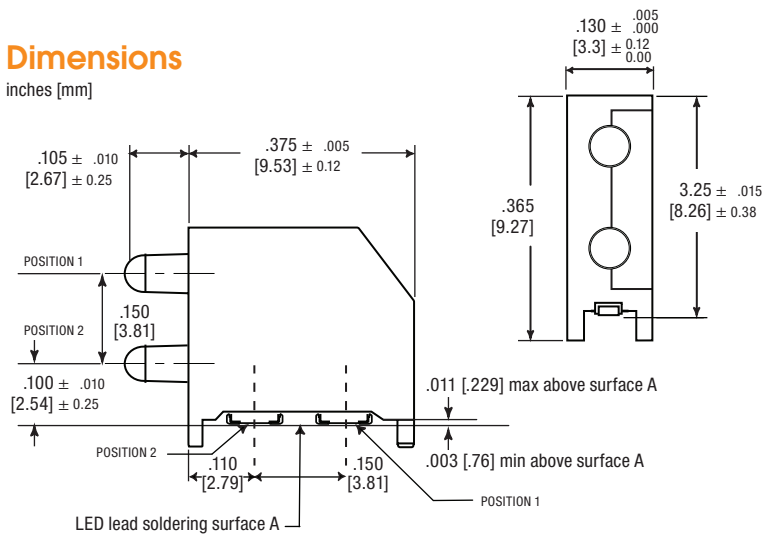
- RoHS and REACH compliant

Features & Benefits

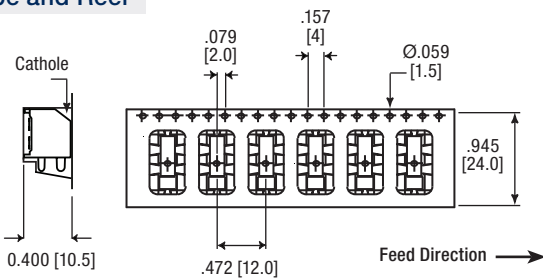
- Compatible with automatic placement equipment.
- Packaged in 16 mm tape, 13" reel (500 pcs/reel) and 10 piece sample strips.
- Compatible with surface mount reflow soldering processes.
- Housing material meets UL-94V-0 flammability ratings.
- Design provides increased indication without increased space
- Helps eliminate mixed technology PC board processing..
- Packaged in moisture barrier bags for dry packaging per IPC/JEDEC J-STD-033, MSL2 for 2 mA, MSL3 for 20 mA

Dimensions

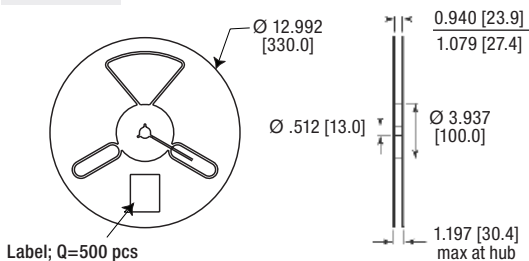
inches [mm]



Tape and Reel



13" Reel



Label; Q=500 pcs

Part Number Guide

5	9	6	-	X	X	X	X	-	0	X	X	F
Colors												
				Position 1		Position 2						
				2	0	2	0	(20 mA)				
				2	0	2	3	Yellow-Green				
				2	3	2	3	Yellow-Green				
				2	3	2	4	Yellow				
				2	3	2	6	Blue				
				2	4	2	0	Red				
				2	4	2	3	Yellow-Green				
				2	4	2	4	Yellow				
				2	4	2	9	Green				
				2	5	2	5	Orange				
				2	6	2	6	Blue				
				2	9	2	6	Blue				
				2	9	2	9	Green				
								(2 mA)				
				1	0	1	0	Red				
				1	4	1	4	Yellow				
				1	5	1	5	Orange				
				1	6	1	6	Ice Blue				
				1	8	1	8	White				

Soldering pad layout and reflow profiles shown on reverse >



Electrical/Optical Characteristics

Dialight P/N		Emitted Color		Material	If = 20mA				Viewing Angle (°deg.)	Reverse Current Intensity (µA) (Ir) VR=5V
10-Piece Tape	13" Reel, 500 pcs	Position 1	Position 2		Luminous Intensity (mcd)		Dominant Wavelength			
				Typ		Typ		Typ	Max	
596-2020-002F	596-2020-013F	● Red	● Red	AllInGaP	35	35	625	625	1.8	2.4
596-2023-002F	596-2023-013F	● Red	● Yellow-Green		35	3	625	570	1.8	2.4
596-2323-002F	596-2323-013F	● Yellow-Green	● Yellow-Green		3	3	570	570	1.8	2.4
596-2324-002F	596-2324-013F	● Yellow-Green	● Yellow		3	20	570	590	1.8	2.4
596-2326-002F	596-2326-013F	● Yellow-Green	● Blue	AllInGaP/InGaN	3	20	570	470	1.8 / 2.8	2.4 / 3.3
596-2420-002F	596-2420-013F	● Yellow	● Red	AllInGaP	20	35	590	630	1-8	2-4
596-2423-002F	596-2423-013F	● Yellow	● Yellow-Green		20	3	590	570	1-8	2.4
596-2424-002F	596-2424-013F	● Yellow	● Yellow		20	20	590	590	1-8	2-4
596-2429-002F	596-2429-013F	● Yellow	● Green	AllInGaP/InGaN	20	140	590	525	1.8 / 2.8	2.4 / 3.3
596-2525-002F	596-2525-013F	● Orange	● Orange	AllInGaP	17	17	605	605	1-8	2-4
596-2626-002F	596-2626-013F	● Blue	● Blue	InGaN	20	20	470	470	2.8	3.3
596-2926-002F	596-2926-013F	● Green	● Blue		140	20	525	470	2.8	3.3
596-2929-002F	596-2929-013F	● Green	● Green		140	140	525	525	2.8	3.3

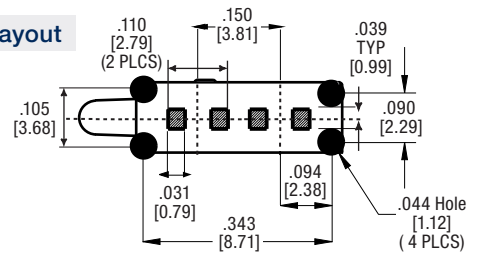
		10 If=mA		If = 2 mA						
		Typ (mcd)		Min	Typ	Max	Typ	Max		
596-1010-013F	596-1010-013F	● Red	● Red	26	26	624	630	635	1.7	2.2
596-1414-013F	596-1414-013F	● Yellow	● Yellow	5	5	600	606	609	1.7	2.2
596-1515-013F	596-1515-013F	● Orange	● Orange	5.5	5.5	580	587	595	1.7	2.2
596-1616-013F	596-1616-013F	● Ice Blue	● Ice Blue	6.5	6.5	Typ x=0.2, y=0.3		2.5	3.1	30
596-1818-013F	596-1818-013F	○ White	○ White	9.3	9.3	x=0.33, y=0.33		2.5	3.1	

Absolute Maximum Ratings

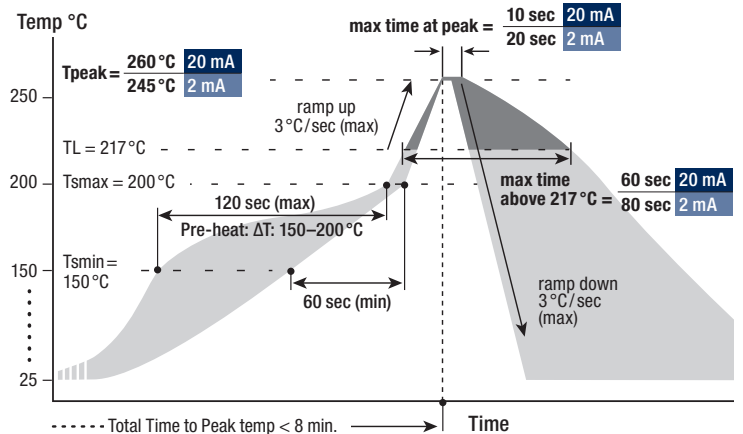
@ Ts=25 °C

	If = 20 mA		If = 2 mA	
Power Dissipation (mW)	● R, ● Y, ● YG	48	-	
	● O	60	-	
	● G	70	-	
Forward Current (mA)	all	20	● R, ● O, ● Y, ○ W	20
			● IB	15
Peak Pulse Fwd Current (mA)	● R, ● Y, ● YG, ● G	100	● R, ● O, ● Y	100
	● O	80	● IB	150
Reverse Voltage (V)	all	5	● R, ● O, ● Y	12
			● IB, ○ W	5
Operating Temp (°C)	-40°C to +85°C		-40°C to +100°C	
Storage Temp (°C)	-40°C to +100°C			
ESD Volt (HBM)	>2000			

Soldering Pad Layout



Reflow Profile



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