



Certifications & Ratings

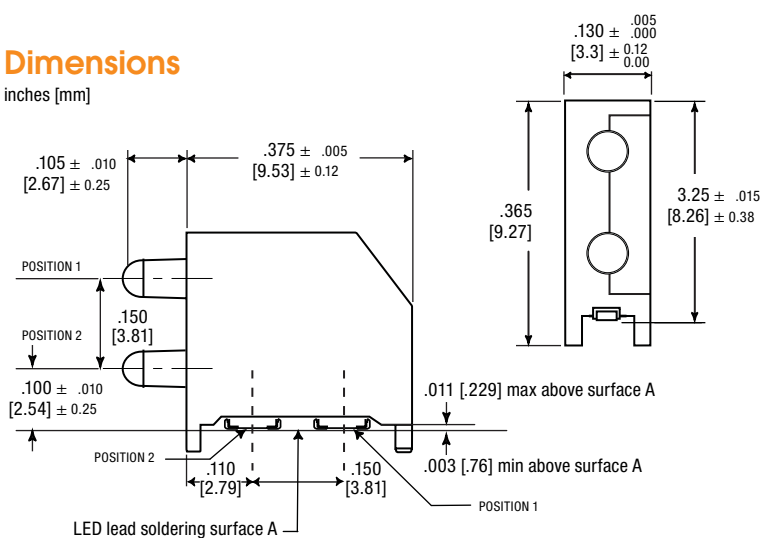
- RoHS and REACH compliant

Features & Benefits

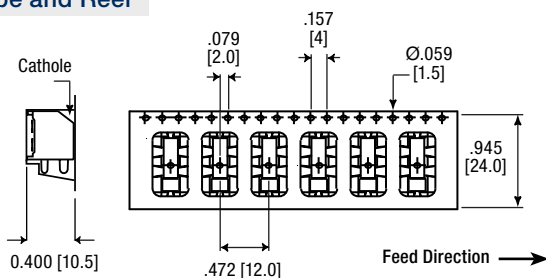
- Compatible with automatic placement equipment.
- Packaged in 16 mm tape and 13" reel (500 pcs/reel).
- Compatible with surface mount reflow soldering processes.
- Housing material meets UL-94V-0 flammability ratings.
- Design provides increased indication without increased space
- Helps eliminate mixed 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

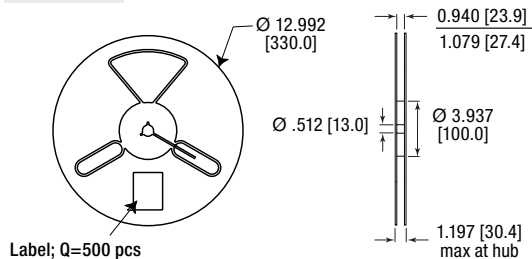
inches [mm]



Tape and Reel



13" Reel



Part Number Guide

5	9	6	-	X	X	X	X	-	0	X	X	F
										Packaging Option		
										1	3	13" reel / 500 pcs
										</		

Electrical/Optical Characteristics

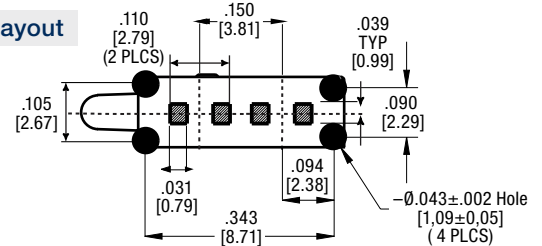
Electrical/Optical Characteristics				Luminous Intensity (mcd)		Dominant Wavelength		Forward Voltage		Viewing Angle (°deg.)	Reverse Current Intensity (μA)	
Dialight P/N	Emitted Color		Material	If = 20mA								
13" Reel, 500 pcs	Position 1	Position 2		Typ	Typ		Typ	Max				
596-2020-013F	● Red	● Red	AlInGaP	35	35	625	625	1.8	2.4	30	10	
596-2023-013F	● Red	● Yellow-Green		35	3	625	570	1.8	2.4			
596-2323-013F	● Yellow-Green	● Yellow-Green		3	3	570	570	1.8	2.4			
596-2324-013F	● Yellow-Green	● Yellow		3	20	570	590	1.8	2.4			
596-2326-013F	● Yellow-Green	● Blue	AlIGaP/ InGaN	3	20	570	470	1.8 / 2.8	2.4 / 3.3			
596-2420-013F	● Yellow	● Red	AlInGaP	20	35	590	630	1.8	2.4			
596-2423-013F	● Yellow	● Yellow-Green		20	3	590	570	1.8	2.4			
596-2424-013F	● Yellow	● Yellow		20	20	590	570	1.8	2.4			
596-2429-013F	● Yellow	● Green		AlIGaP/ InGaN	20	140	590	525	1.8 / 2.8			2.4 / 3.3
596-2523-013F	● Orange	● Yellow-Green	AlInGaP	17	3	605	570	1.8	2.4			
596-2525-013F	● Orange	● Orange	AlInGaP	17	17	605	605	1.8	2.4			
596-2626-013F	● Blue	● Blue	InGaN	45	45	470	470	2.8	3.3			
596-2926-013F	● Green	● Blue		140	45	525	470	2.8	3.3			
596-2929-013F	● Green	● Green		140	140	525	525	2.8	3.3			
				If = 10mA						30	10	
596-2828-013F	○ White	○ White	InGaN	100	100	x=0.29 / y=0.29		2.8	3.1			
				If = 10mA		If = 20mA				30	10	
				Typ (mcd)		Min	Typ	Max	Typ			Max
596-1010-013F	● Red	● Red	AlInGaP	26	26	624	630	635	1.7			2.2
596-1414-013F	● Yellow	● Yellow		5	5	600	606	609	1.7			2.2
596-1515-013F	● Orange	● Orange		5.5	5.5	580	587	595	1.7	2.2		

Absolute Maximum Ratings

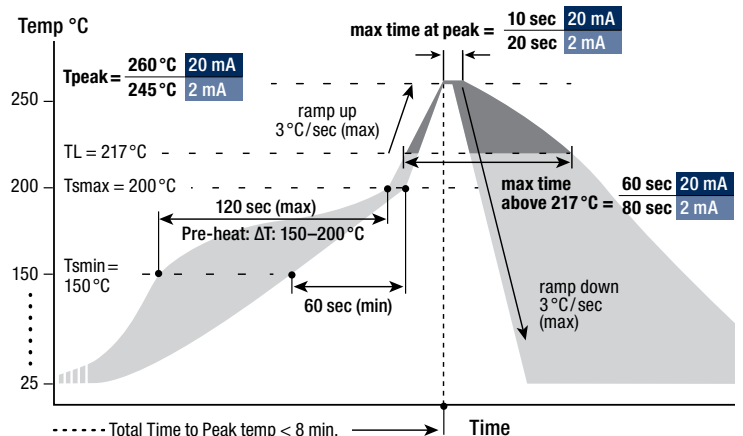
@ Ts = 25 °C

@ Ts = 25 °C		If = 20 mA		If = 2 mA	
Power Dissipation (mW)	● R, ● Y, ● YG	48	—		
	● O	60			
	● G	70			
	○ W	62			
	● B	70			
Forward Current (mA)	all	20	● R, ● O, ● Y	20	
Peak Pulse Fwd Current (mA)	● R, ● Y, ● YG, ● G ○ W, ● B	100	● R, ● O, ● Y		100
	● O	80			150 200
Reverse Voltage (V)	all	5	● R, ● O, ● Y	12 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



Dialight reserves the right to make changes at any time in order to supply the best product possible. The most current version of this document will always be available at: www.dialightsignalsandcomponents.com

Warranty Statement: Except for the warranty expressly provided for at: www.dialight.com/resources/warranties/, Dialight disclaims any and all other warranties, express or implied, including, without limitation, any warranties of merchantability, fitness for a particular purpose, title, and noninfringement.

www.dialightsignalsandcomponents.com

Dialight_CBI-Prism_data_596_1225_1