



Certifications & Ratings

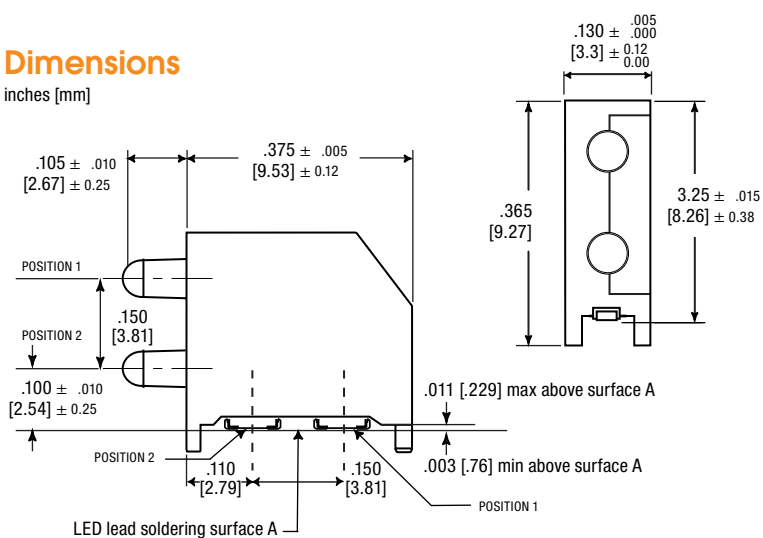
- RoHS and REACH compliant

Features & Benefits

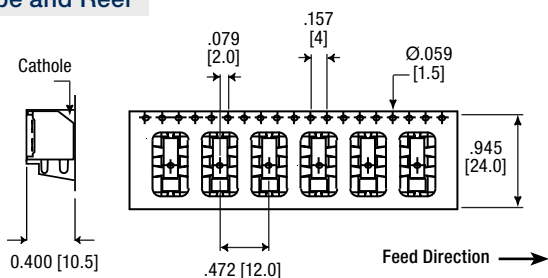
- Compatible with automatic placement equipment.
- Packaged in 16 mm tape and 13" reel (500 pcs/reel).
- Compatible with surface mount reflow soldering processes.
- Housing material meets UL-94V-0 flammability ratings.
- Design provides increased indication without increased space
- Helps eliminate mixed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

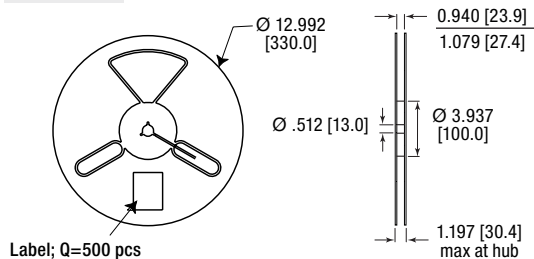
inches [mm]



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

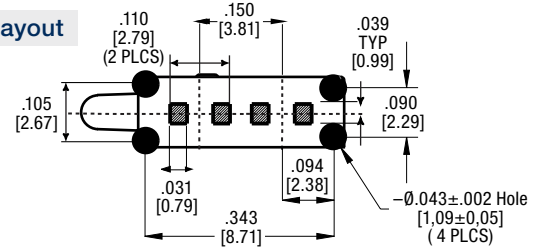
Electrical/Optical Characteristics				Luminous Intensity (mcd)		Dominant Wavelength		Forward Voltage		Viewing Angle (°deg.)	Reverse Current Intensity (μA)	
Dialight P/N	Emitted Color		Material	If = 20mA								
13" Reel, 500 pcs	Position 1	Position 2		Typ	Typ		Typ		Max			
596-2020-013F	● Red	● Red	AlInGaP	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		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												
596-2828-013F	○ White	○ White	InGaN	100	100	x=0.29 / y=0.29		2.8	3.1	30	10	
				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

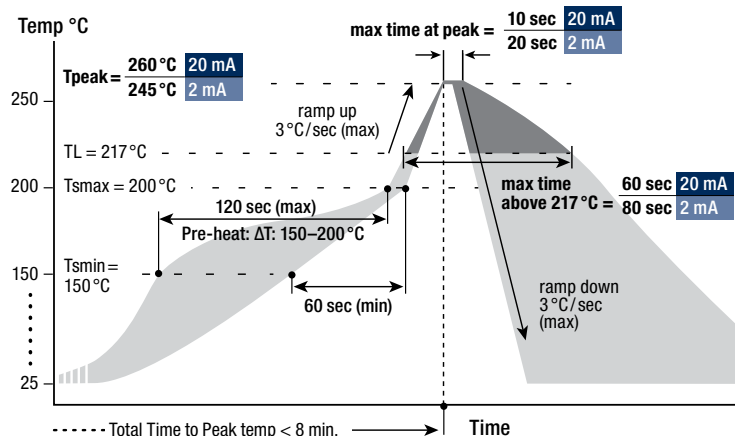
@ Ts = 25 °C

@ 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



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