

Certifications & Ratings

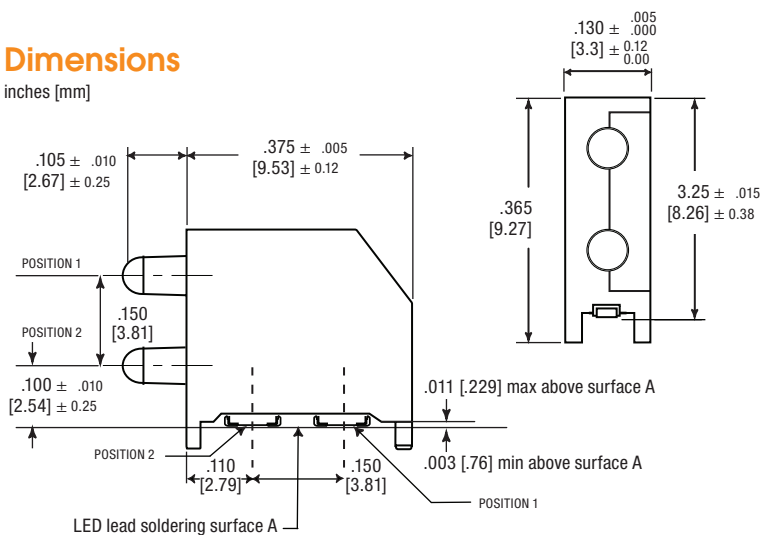
- RoHS and REACH compliant

Features & Benefits

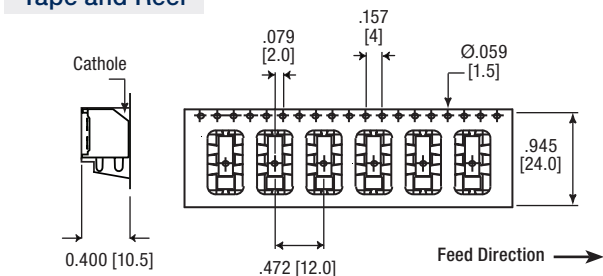
- Compatible with automatic placement equipment.
- Packaged in 16 mm tape, 13" reel (500 pcs/reel) and 10 piece sample strips.
- Compatible with surface mount reflow soldering processes.
- Housing material meets UL-94V-0 flammability ratings.
- Design provides increased indication without increased space.
- 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

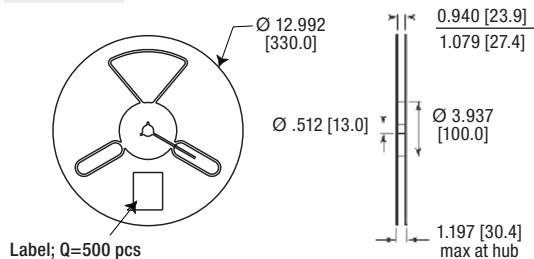
inches [mm]



Tape and Reel



13" Reel



Part Number Guide

5	9	6	-	X	X	X	X	-	0	X	X	F
										Packaging Option		
										0	2	10 pc tape
										1	3	13" reel / 500 pcs

Soldering pad layout and reflow profiles shown on reverse >



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						(Ir) VR=5V	
10-Piece Tape	13" Reel, 500 pcs	Position 1	Position 2		Typ	Typ		Typ	Max			
596-2020-002F	596-2020-013F	● Red	● Red	AlInGaP	35	35	625	625	1.8	2.4	30	10
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	AlInGaP/InGaN	3	20	570	470	1.8 / 2.8	2.4 / 3.3		
596-2420-002F	596-2420-013F	● Yellow	● Red	AlInGaP	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	AlInGaP/InGaN	20	140	590	525	1.8 / 2.8	2.4 / 3.3		
596-2525-002F	596-2525-013F	● Orange	● Orange	AlInGaP	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		

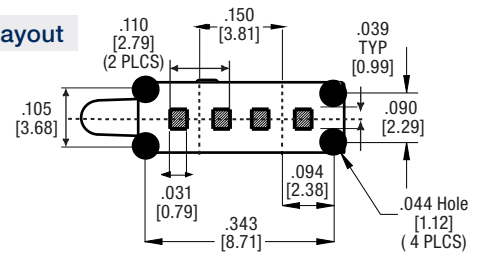
					10 If=mA		If = 2 mA						
					Typ (mcd)		Min	Typ	Max	Typ	Max		
596-1010-013F	596-1010-013F	 Red	 Red	AlInGaP	26	26	624	630	635	1.7	2.2	30	10
596-1414-013F	596-1414-013F	 Yellow	 Yellow		5	5	600	606	609	1.7	2.2		
596-1515-013F	596-1515-013F	 Orange	 Orange		5.5	5.5	580	587	595	1.7	2.2		
596-1616-013F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

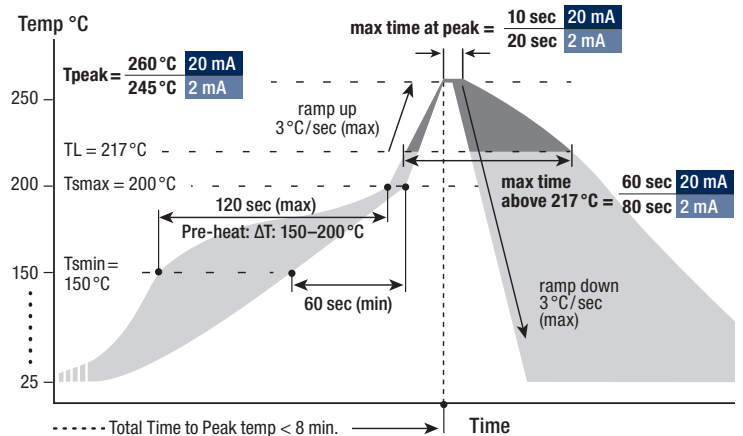
@ Ts=25 °C

@ 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
			○ W	200
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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Authorized Distributor

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<u>596-1010-002F</u>	<u>596-1010-013F</u>	<u>596-1414-002F</u>	<u>596-2926-013F</u>	<u>596-2929-002F</u>	<u>596-2929-013F</u>	<u>596-2429-013F</u>
<u>596-2525-002F</u>	<u>596-2525-013F</u>	<u>596-2626-002F</u>	<u>596-2626-013F</u>	<u>596-2926-002F</u>	<u>596-2420-013F</u>	<u>596-2423-002F</u>
<u>596-2423-013F</u>	<u>596-2424-002F</u>	<u>596-2424-013F</u>	<u>596-2429-002F</u>	<u>596-2323-013F</u>	<u>596-2324-002F</u>	<u>596-2324-013F</u>
<u>596-2326-002F</u>	<u>596-2326-013F</u>	<u>596-2420-002F</u>	<u>596-1818-013F</u>	<u>596-2020-002F</u>	<u>596-2020-013F</u>	<u>596-2023-002F</u>
<u>596-2023-013F</u>	<u>596-2323-002F</u>	<u>596-1414-013F</u>	<u>596-1515-002F</u>	<u>596-1515-013F</u>	<u>596-1616-002F</u>	<u>596-1616-013F</u>
<u>596-1818-002F</u>						