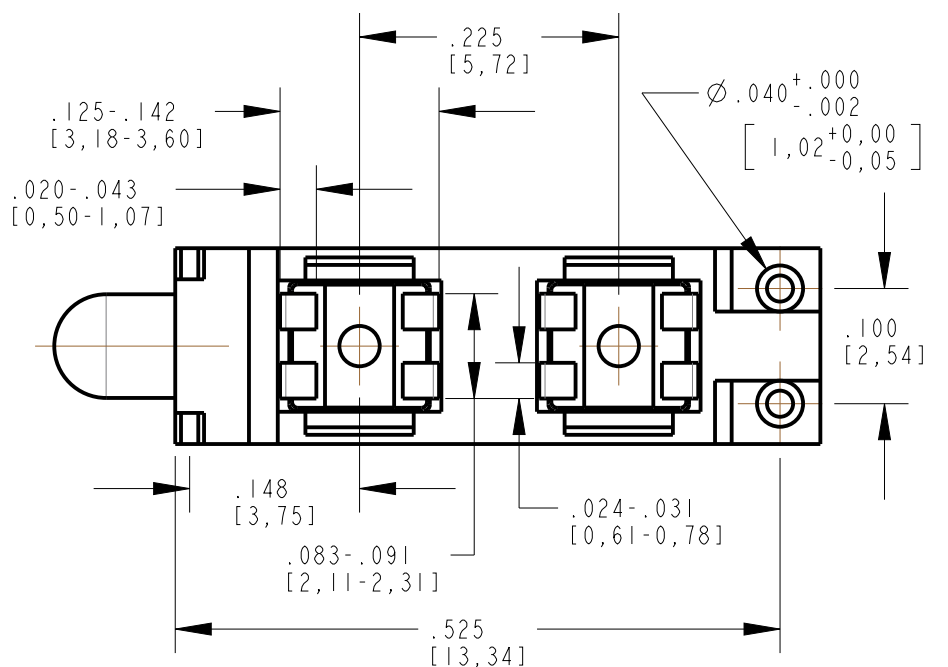
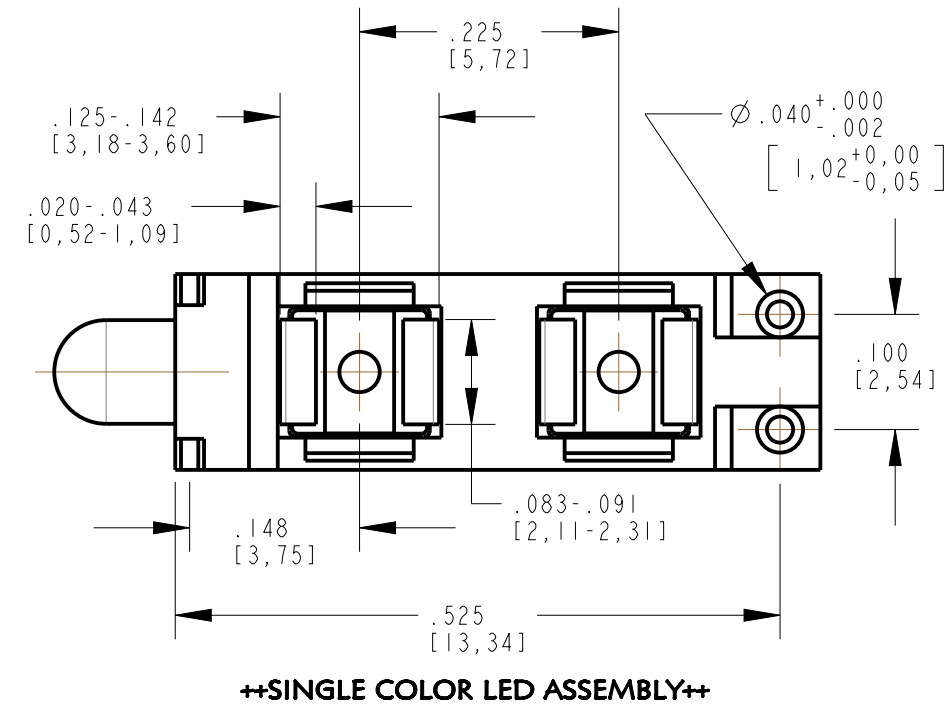
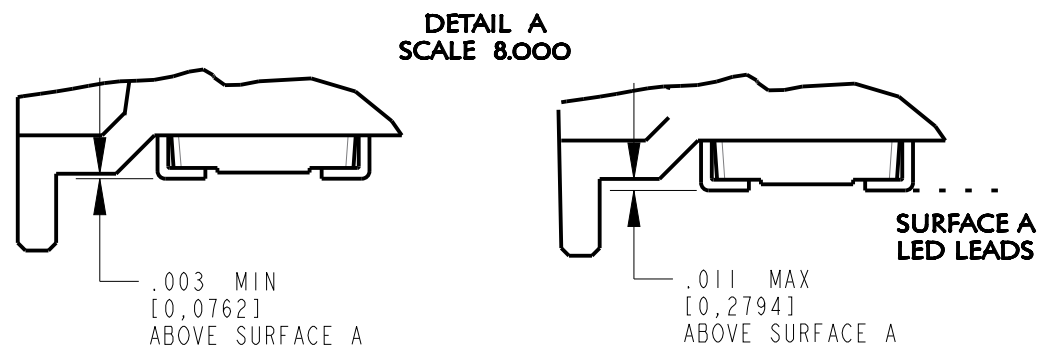
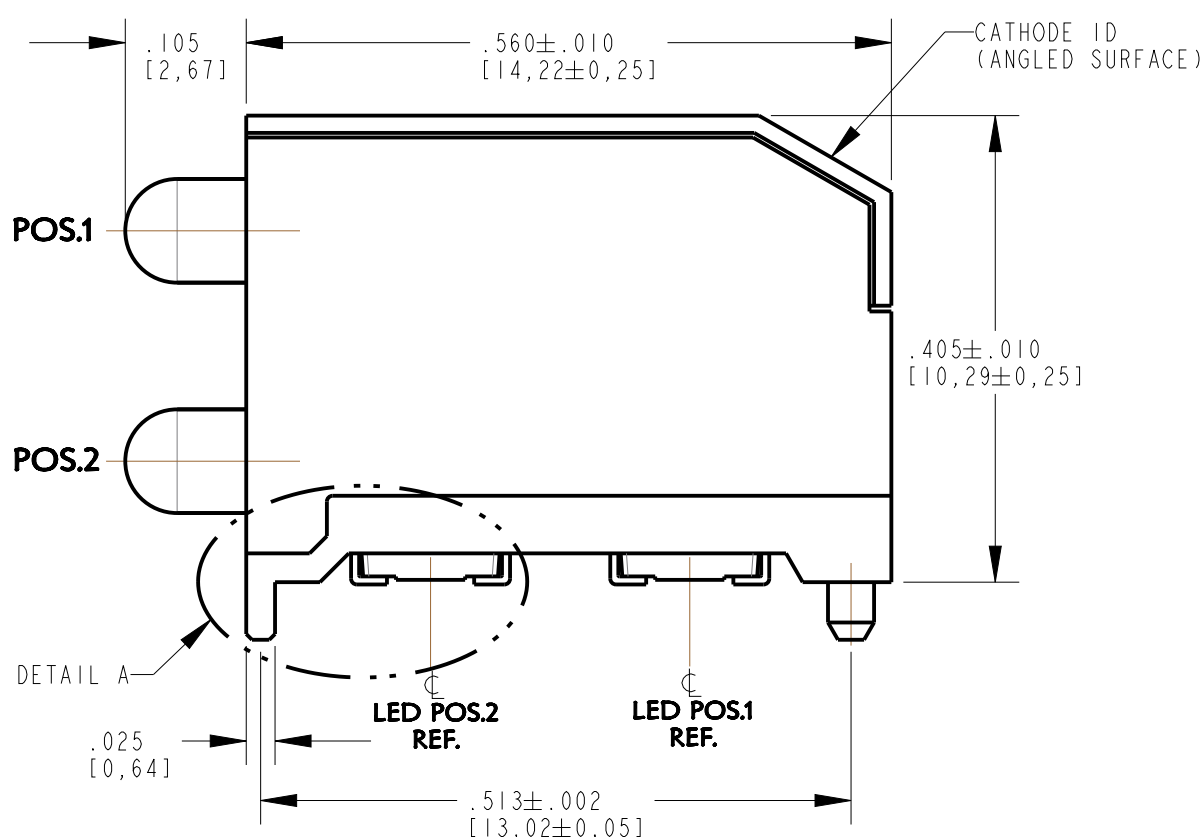


DIALIGHT PART NUMBER	PACKAGING	POSITION 1	POSITION 2	MSL
592-1010-302F	SAMPLE STRIP 13" REEL	RED [2mA]	RED [2mA]	2
592-1010-313F		GREEN [2mA]	GREEN [2mA]	2
592-1313-302F		GREEN [2mA]	YELLOW [2mA]	2
592-1313-313F		GREEN [2mA]	RED [2mA]	2
592-1410-302F	SAMPLE STRIP 13" REEL	YELLOW [2mA]	RED [2mA]	2
592-1410-313F		YELLOW [2mA]	YELLOW [2mA]	2
592-1414-302F		ORANGE [2mA]	ORANGE [2mA]	2
592-1515-313F		RED [2mA]	RED [2mA]	2
592-2020-302F	SAMPLE STRIP 13" REEL	[HI.EFF]	[HI.EFF]	2
592-2020-313F		[HI.EFF]	GREEN	2
592-2023-302F		RED [AI(GaAs)]	RED [AI(GaAs)]	2
592-2023-313F		RED [AI(GaAs)]	YELLOW	2
592-2121-302F	SAMPLE STRIP 13" REEL	RED [AI(GaAs)]	BLUE [InGaN]	2
592-2124-302F		RED [AI(GaAs)]	RED	2a
592-2124-313F		RED [AI(GaAs)]	GREEN [HI.INT]	2
592-2126-302F		RED [AI(GaAs)]	GREEN [HI.INT]	2
592-2126-313F	SAMPLE STRIP 13" REEL	RED/GRN/BLUE	RED	2a
592-2135-302F		GREEN [HI.INT]	GREEN [HI.INT]	2
592-2135-313F		GREEN [HI.INT]	RED [HI.EFF]	2
592-2222-302F		GREEN	GREEN	2
592-2320-302F	SAMPLE STRIP 13" REEL	GREEN	YELLOW	2
592-2320-313F		GREEN	BLUE [InGaN]	2
592-2323-302F		GREEN	RED [HI.EFF]	2
592-2323-313F		GREEN	YELLOW	2
592-2420-302F	SAMPLE STRIP 13" REEL	YELLOW	RED [HI.EFF]	2
592-2420-313F		YELLOW	GREEN [HI.INT]	2
592-2422-302F		YELLOW	GREEN [InGaN]	2
592-2422-313F		YELLOW	ORANGE/GREEN	2
592-2423-302F	SAMPLE STRIP 13" REEL	YELLOW	GREEN	2
592-2423-313F		YELLOW	YELLOW	2
592-2424-302F		YELLOW	YELLOW	2
592-2424-313F		YELLOW	GREEN [InGaN]	2
592-2429-302F	SAMPLE STRIP 13" REEL	YELLOW	ORANGE/GREEN	2
592-2436-302F		YELLOW	ORANGE	2
592-2436-313F		ORANGE	ORANGE	2
592-2525-302F		ORANGE	ORANGE	2
592-2525-313F	SAMPLE STRIP 13" REEL	BLUE [InGaN]	BLUE [InGaN]	2
592-2626-302F		BLUE [InGaN]	YELLOW	2
592-2626-313F		BLUE [InGaN]	WHITE	2
592-2627-302F		BLUE [InGaN]	YELLOW/GREEN	2
592-2627-313F	SAMPLE STRIP 13" REEL	BLUE [InGaN]	WHITE	2
592-2628-302F		BLUE [InGaN]	YELLOW/GREEN	2
592-2628-313F		BLUE [InGaN]	YELLOW	2
592-2631-302F		BLUE [InGaN]	YELLOW	2a
592-2727-302F	SAMPLE STRIP 13" REEL	YELLOW [AlInGaP]	YELLOW [AlInGaP]	2
592-2727-313F		YELLOW [AlInGaP]	GREEN [InGaN]	2a
592-2729-302F		YELLOW [AlInGaP]	BLUE [InGaN]	2
592-2729-313F		YELLOW [AlInGaP]	WHITE	2
592-2826-302F	SAMPLE STRIP 13" REEL	WHITE	WHITE	2
592-2826-313F		WHITE	BLUE [InGaN]	2a
592-2828-302F		TRUE GREEN [InGaN]	GREEN [InGaN]	2a
592-2828-313F		TRUE GREEN [InGaN]	YELLOW [AlInGaP]	2a
592-2929-302F	SAMPLE STRIP 13" REEL	GREEN [InGaN]	GREEN [InGaN]	2a
592-2929-313F		GREEN [InGaN]	RED/GREEN	2
592-3030-302F		RED/GREEN	RED/GREEN	2
592-3030-313F		RED/GREEN	YELLOW/GREEN	2
592-3031-302F	SAMPLE STRIP 13" REEL	RED/GREEN	RED/YELLOW	2
592-3031-313F		RED/GREEN	RED/YELLOW	2
592-3032-302F		RED/GREEN	RED/YELLOW	2
592-3032-313F		RED/GREEN	RED/YELLOW	2
592-3034-302F	SAMPLE STRIP 13" REEL	RED/GREEN	RED/BLUE	2a
592-3034-313F		RED/GREEN	ORANGE/GREEN	3
592-3036-302F		RED/GREEN	BLUE [InGaN]	2
592-3126-302F		YELLOW/GREEN	YELLOW/GREEN	2
592-3131-302F	SAMPLE STRIP 13" REEL	YELLOW/GREEN	RED/YELLOW	2
592-3131-313F		RED/YELLOW	RED/YELLOW	2
592-3232-302F		RED/YELLOW	ORANGE/GREEN	2
592-3232-313F		RED/YELLOW	RED/GRN/BLUE	2a
592-3236-302F	SAMPLE STRIP 13" REEL	RED/GRN/BLUE	RED	2a
592-3236-313F		RED/GRN/BLUE	WHITE	2a
592-3530-302F		RED/GRN/BLUE	RED/GREEN	2a
592-3530-313F		RED/GRN/BLUE	YELLOW/GREEN	2a
592-3531-302F	SAMPLE STRIP 13" REEL	RED/GRN/BLUE	RED/GRN/BLUE	2a
592-3535-313F		RED/GRN/BLUE	RED/GRN/BLUE	2a



OPERATING CHARACTERISTICS AT 25°C AMBIENT - SINGLE COLOR LEDS									
#	DESCRIPTION	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		REVERSE CURRENT (μA)
		2mA	10mA	MIN	TYP	MAX	TYP	2mA	
10	RED	3.8	9.8	624	630	636	643	1.8	2.2
13	GREEN	3.2	10.1	566	570	575	572	1.8	2.2
14	YELLOW	4.4	11.3	580	587	594	591	1.8	2.2
15	ORANGE	5.6	14.0	600	606	609	610	1.8	2.2

OPERATING CHARACTERISTICS AT 25°C AMBIENT - SINGLE COLOR LEDS									
#	DESCRIPTION	TYP	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)	
			MIN	TYP	MAX	TYP	TYP	MAX	MAX
20	RED [HI.EFF]	3	622	628	634	635	2.0	2.5	10 @ V _F =12 V
21	RED [AI(GaAs)]	9	—	645	—	660	1.75	2.5	10 @ V _F =12 V
22	GREEN [HI.INT]	6	564	570	576	572	2.0	2.5	10 @ V _F =12 V
23	GREEN	4	564	570	576	572	2.0	2.5	10 @ V _F =12 V
24	YELLOW	2	580	587	595	586	2.0	2.5	10 @ V _F =5 V
25	ORANGE	2	600	606	609	610	2.0	2.5	10 @ V _F =5 V
26	BLUE [InGaN]	6	462	465	468	428	3.5	4.1	10 @ V _F =12 V
27	YELLOW [AlInGaP]	60	580	587	595	591	2.0	2.4	10 @ V _F =12 V
28	WHITE	10	X= .285; Y= .259; Z= .367	33; .367	—	—	3.1	3.7	10 @ V _F =5 V
29	GREEN [InGaN]	56	—	525	—	523	3.7	4.3	10 @ V _F =12 V

#30 & #31 OPERATING CHARACTERISTICS AT 25°C AMBIENT									
LED COLOR	LUMINOUS INTENSITY (mcd)	FORWARD VOLTAGE (V)		REVERSE CURRENT (μA)		DOMINANT WAVELENGTH (nm)		PEAK WAVELENGTH (nm)	
		MIN	TYP	MAX	TYP	MAX	MIN	TYP	MAX
RED/GRN	RED	—	11	—	1.8	2.2	0.01	10	624 630 636 643
RED/GRN	GREEN	—	5	—	—	—	—	—	566 570 575 572
YLW/GRN	YELLOW	—	14	—	1.8	2.2	0.01	10	580 587 595 591
YLW/GRN	GREEN	—	5	—	—	—	—	—	566 570 575 572

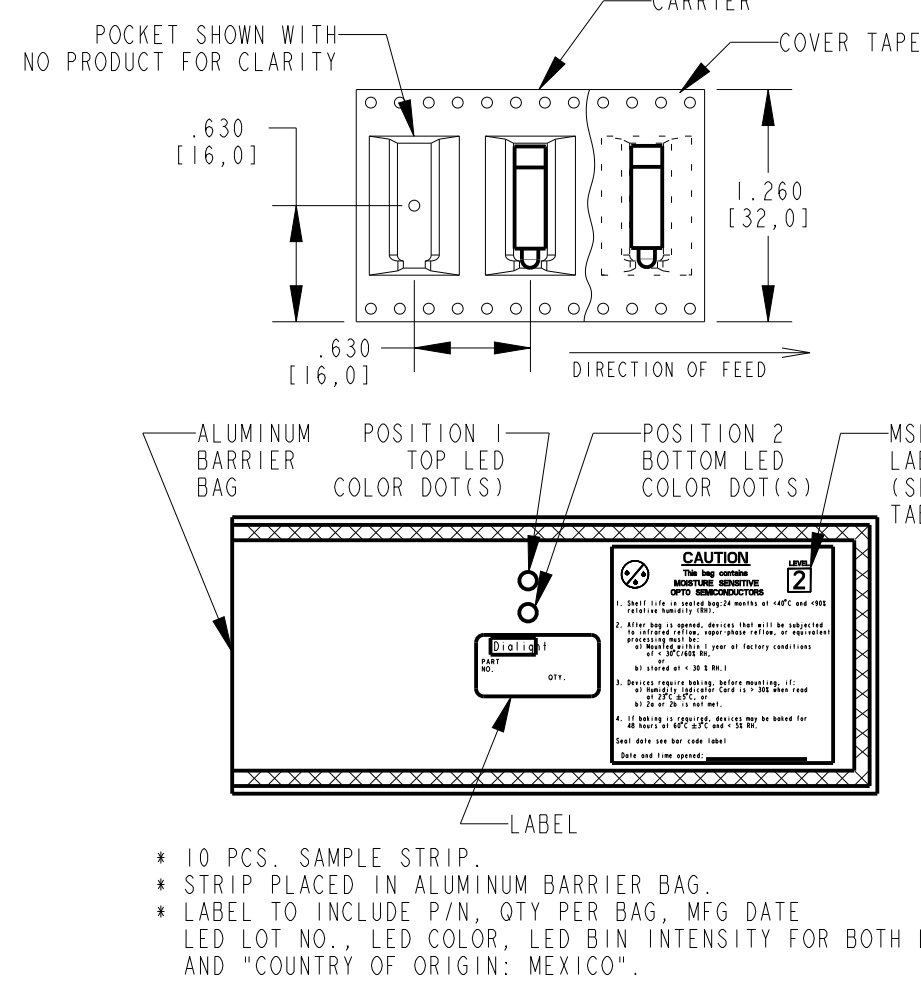
OPERATING CHARACTERISTICS AT 25°C AMBIENT - RED/YELLOW BI-COLOR LED									
#32	COLOR	LUMINOUS INTENSITY (mcd)	TEST CURRENT (mA)	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)
				MIN	TYP	MAX	TYP	TYP	
RED	RED	21	20	627	633	639	645	2.0	2.3
	YELLOW	34	20	580	587	595	591	2.0	2.4

OPERATING CHARACTERISTICS AT 25°C AMBIENT - RED/BLUE BI-COLOR LED									
#34	COLOR	LUMINOUS INTENSITY (mcd)	TEST CURRENT (mA)	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)
				MIN	TYP	MAX	TYP	TYP	
RED	RED	21	10	620	625	630	—	1.9	2.2
	BLUE	24	10	465	467	470	—	3.0	3.2

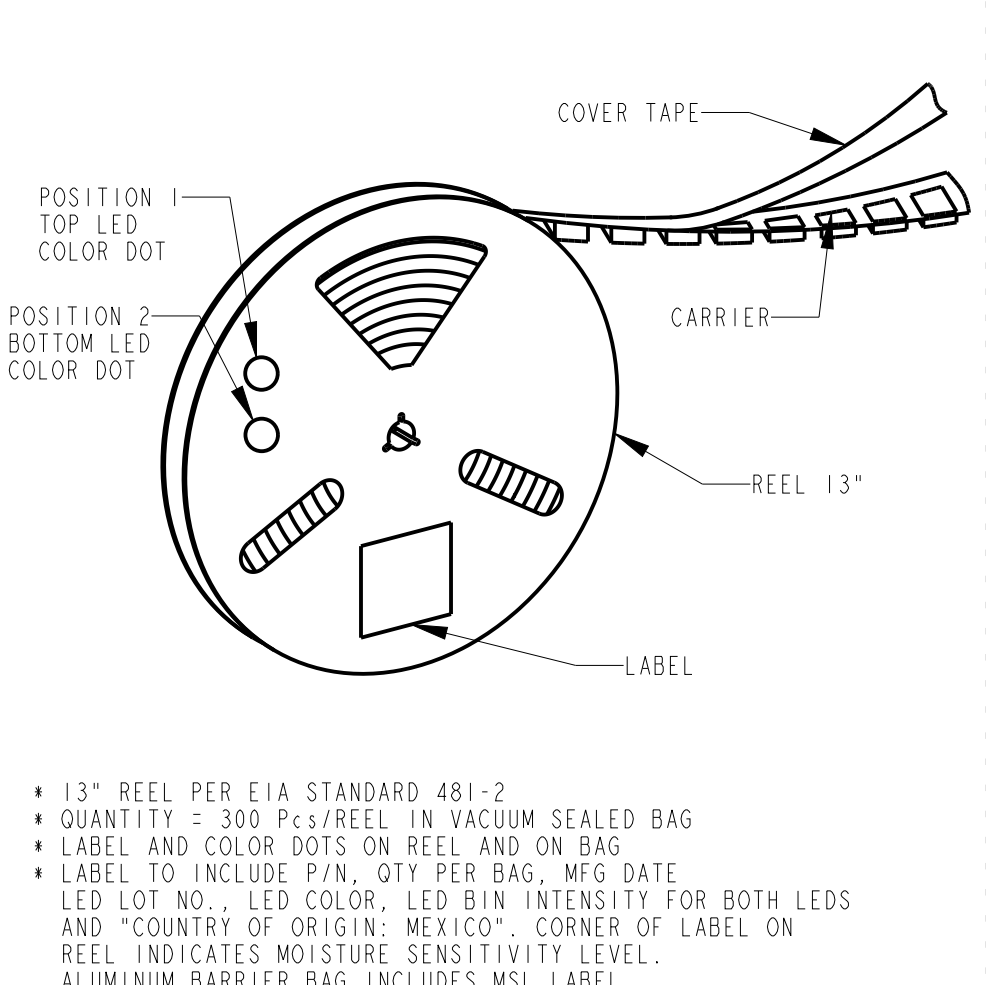
OPERATING CHARACTERISTICS AT 25°C AMBIENT - RED/GRN/BLUE TRI-COLOR LED									
#35	COLOR	LUMINOUS INTENSITY (mcd)	TEST CURRENT (mA)	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)
				MIN	TYP	MAX	TYP	TYP	
RED	RED	31	20	626	635	635	1.9	2.4	2.4
	GREEN	84	20	525	523	523	3.4	4.1	
BLUE	BLUE	16	20	470	468	468	3.4	4.1	4.1

OPERATING CHARACTERISTICS AT 25°C AMBIENT - ORANGE/GREEN BI-COLOR LED									
#36	COLOR	LUMINOUS INTENSITY (mcd)	TEST CURRENT (mA)	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)
				MIN	TYP	MAX	TYP	TYP	
ORANGE	ORANGE	3	10	600	606	612	610	2.0	2.5
	GREEN	4	10	564	570	576	572	2.0	2.5

SAMPLE STRIP PACKAGING SPECIFICATION



13" REEL PACKAGING SPECIFICATION



ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - SINGLE COLOR LEDS	COLOR				UNITS
	RED	GREEN	YELLOW	ORANGE	
POWER DISSIPATION	50	40	50	50	mW
PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	100				mA
CONTINUOUS FORWARD CURRENT	20				mA
LINEAR DERATING AT MAX CURRENT (20mA)	0 (UNDER 100°C)				mA/°C
REVERSE VOLTAGE	12				V
LEAD REFLOW SOLDERING TEMPERATURE (FOR 5 SEC.)	260 (ALSO SEE GRAPH)				°C
OPERATING TEMPERATURE	-40 TO +100				°C
STORAGE TEMPERATURE	-40 TO +100				°C

ABSOLUTE MAXIMUM RATINGS AT 25 °C AMBIENT SINGLE COLOR LEDs	COLOR									UNITS	
	RED [H.I.EFF.]	RED [AlGaAs]	GREEN	GREEN [H.I.INT.]	YELLOW [AlInGaP]	ORANGE	WHITE	BLUE [InGaN]	GREEN [InGaN]		
POWER DISSIPATION	95	90	95	95	95	80	95	80	114	mW	
PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	500	500	500	500	500	200	500	200	200	mA	
CONTINUOUS FORWARD CURRENT	30	30	30	30	30	30	30	20	30	mA	
LINEAR DERATING FROM 60°C, UNLESS OTHERWISE NOTED	0.75	0.75	0.75	0.75	0.75	1.0 (FROM 85°C)	0.75	0.60 (FROM 75°C)	0.44 (FROM 55°C)	0.42 (FROM 40°C)	mA/°C
REVERSE VOLTAGE	12	5	12	12	5	12	5	5	5	V	
LEAD REFLOW SOLDERING TEMP (FOR 5 SEC.)	260									°C	
OPERATING TEMPERATURE	-40 TO +100									°C	
STORAGE TEMPERATURE	-40 TO +100									°C	

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT RED/GRN
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