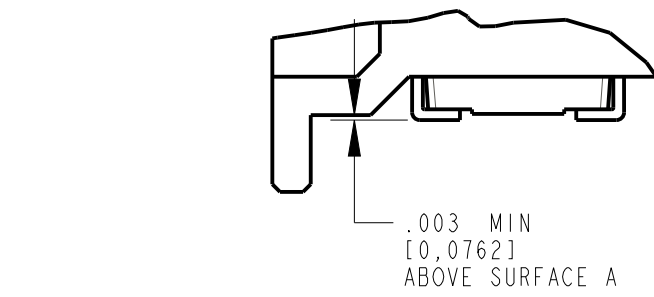
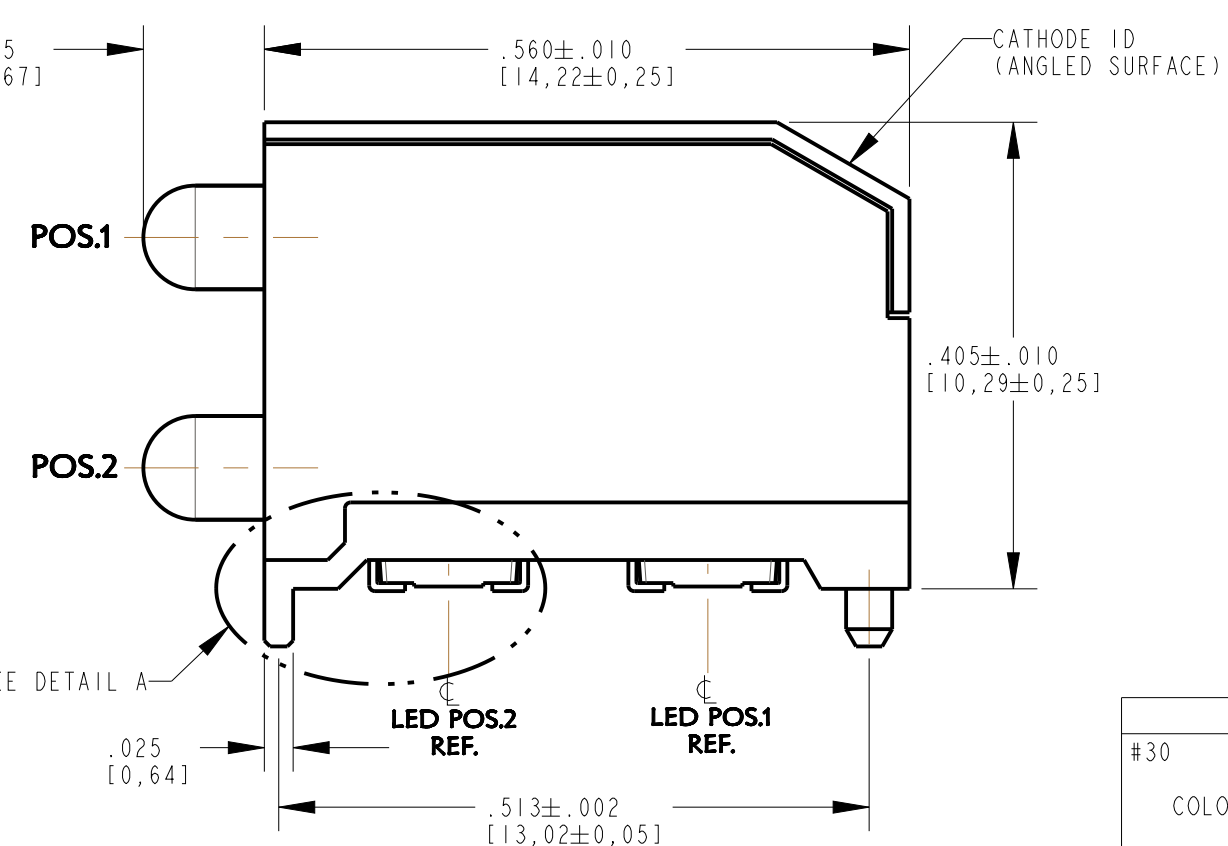
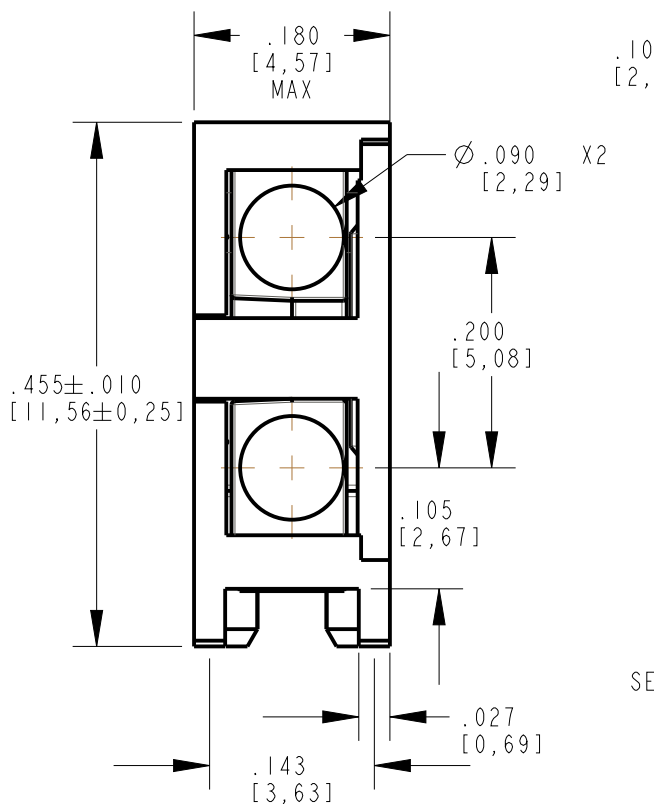


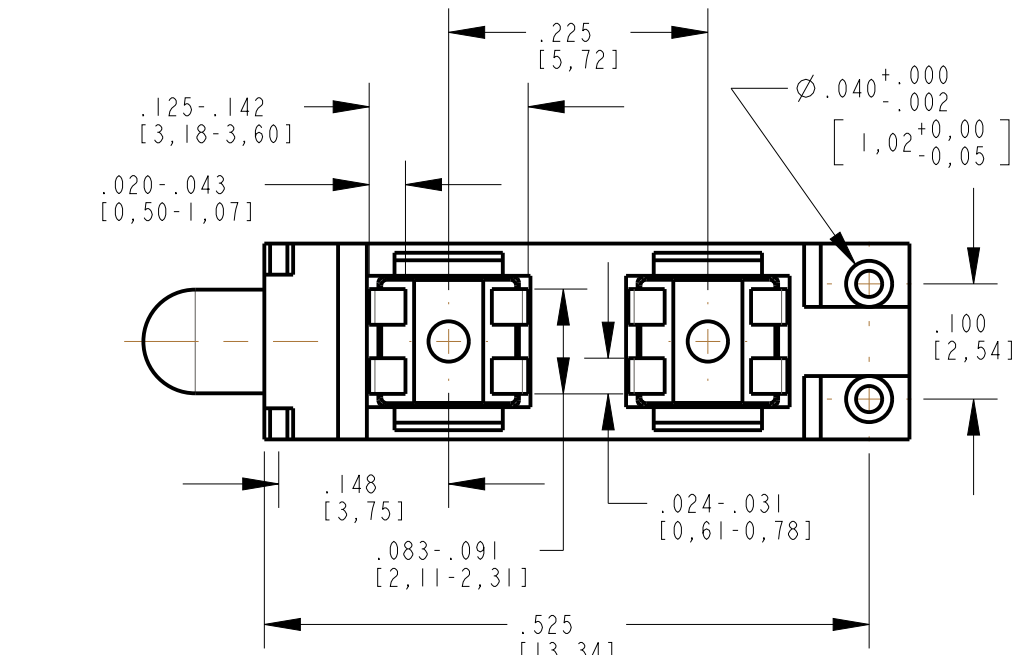
DIALIGHT PART NUMBER	PACKAGING	POSITION 1	POSITION 2	MSL
592-2020-302F	SAMPLE STRIP 13" REEL	RED [HI, EFF]	RED [HI, EFF]	2
592-2020-313F		RED [HI, EFF]	GREEN	2
592-2023-302F		RED [HI, EFF]	GREEN	2
592-2023-313F		RED [AI(GaAs)]	RED [AI(GaAs)]	2
592-2121-302F	SAMPLE STRIP 13" REEL	RED [AI(GaAs)]	RED [AI(GaAs)]	2
592-2121-313F		RED [AI(GaAs)]	YELLOW	2
592-2124-302F		RED [AI(GaAs)]	YELLOW	2
592-2124-313F		RED [AI(GaAs)]	BLUE [InGaN]	2
592-2126-302F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2222-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2222-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2320-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2320-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2323-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2323-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2324-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2324-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2326-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2326-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2420-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2420-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2422-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2422-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2423-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2423-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2424-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2424-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2436-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2436-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2525-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2525-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2626-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2626-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2627-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2627-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2628-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2628-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2631-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2631-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2727-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2727-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2826-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2826-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2828-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2828-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-2926-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2926-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-2927-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-2927-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-3030-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-3030-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-3031-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-3031-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-3034-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-3034-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-3126-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-3126-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-3131-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-3131-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-3232-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-3232-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2
592-3236-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-3236-313F		RED [HI, INT]	GREEN [HI, INT]	2
592-3535-302F		RED [HI, INT]	GREEN [HI, INT]	2
592-3535-313F	SAMPLE STRIP 13" REEL	RED [HI, INT]	GREEN [HI, INT]	2



DETAIL A
SCALE 8.000

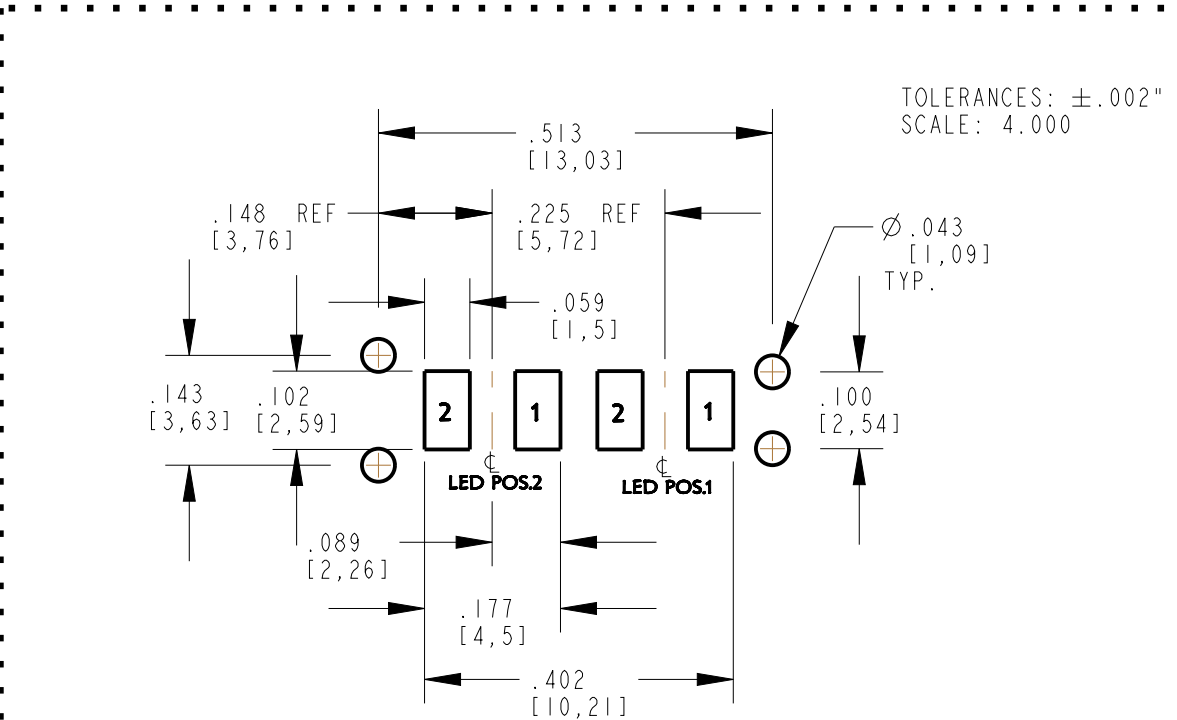


++SINGLE COLOR LED ASSEMBLY++

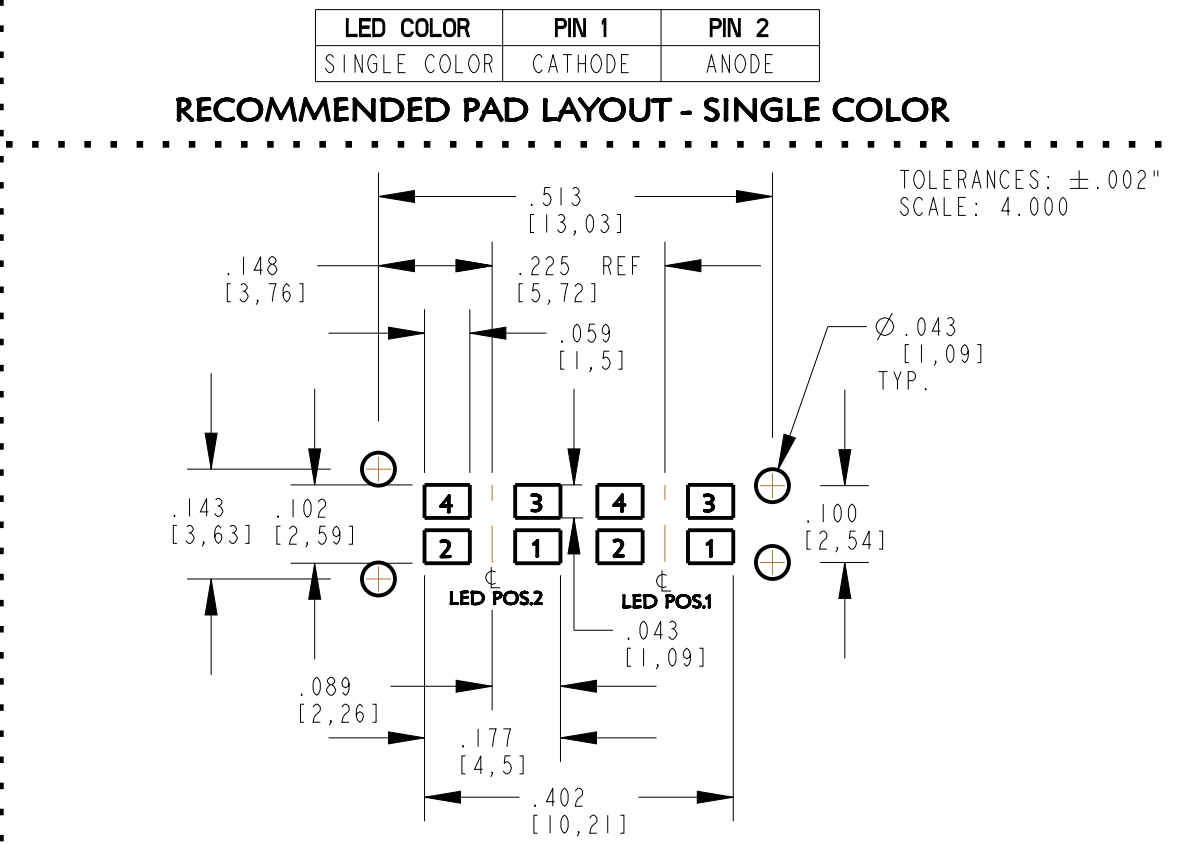


++BI-COLOR LED ASSEMBLY++

OPERATING CHARACTERISTICS AT 25°C AMBIENT - SINGLE COLOR LEDs										
COLOR		LUMINOUS INTENSITY (mcd)	TEST CURRENT (mA)	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)	FORWARD VOLTAGE (V)		REVERSE CURRENT (μA)
#	DESCRIPTION	TYP		MIN	TYP	MAX	TYP	TYP	MAX	MAX
20	RED [HI, EFF]	3	10	622	628	634	635	2.0	2.5	10 @ V _F =12 V
21	RED [AlGaAs]	9	10	—	645	—	660	1.75	2.5	10 @ V _F =12 V
22	GREEN [HI, INT]	6	10	564	570	576	572	2.0	2.5	10 @ V _F =12 V
23	GREEN	4	10	564	570	576	572	2.0	2.5	10 @ V _F =12 V
24	YELLOW	2	10	580	587	595	586	2.0	2.5	10 @ V _F =5 V
25	ORANGE	2	10	600	606	609	610	2.0	2.5	10 @ V _F =5 V
26	BLUE [InGaP]	6	10	462	465	468	428	3.5	4.1	10 @ V _R =12 V
27	YELLOW [AlInGaP]	60	20	580	587	595	591	2.0	2.4	10 @ V _R =12 V
28	WHITE	34	10	X: .285; .33; .367 Y: .259; .33; .401		—		3.1	3.7	10 @ V _F =5 V
29	GREEN [InGaP]	56	20	—	525	—	523	3.7	4.3	10 @ V _R =12 V



TOLERANCES: ±.002"
SCALE: 4.000

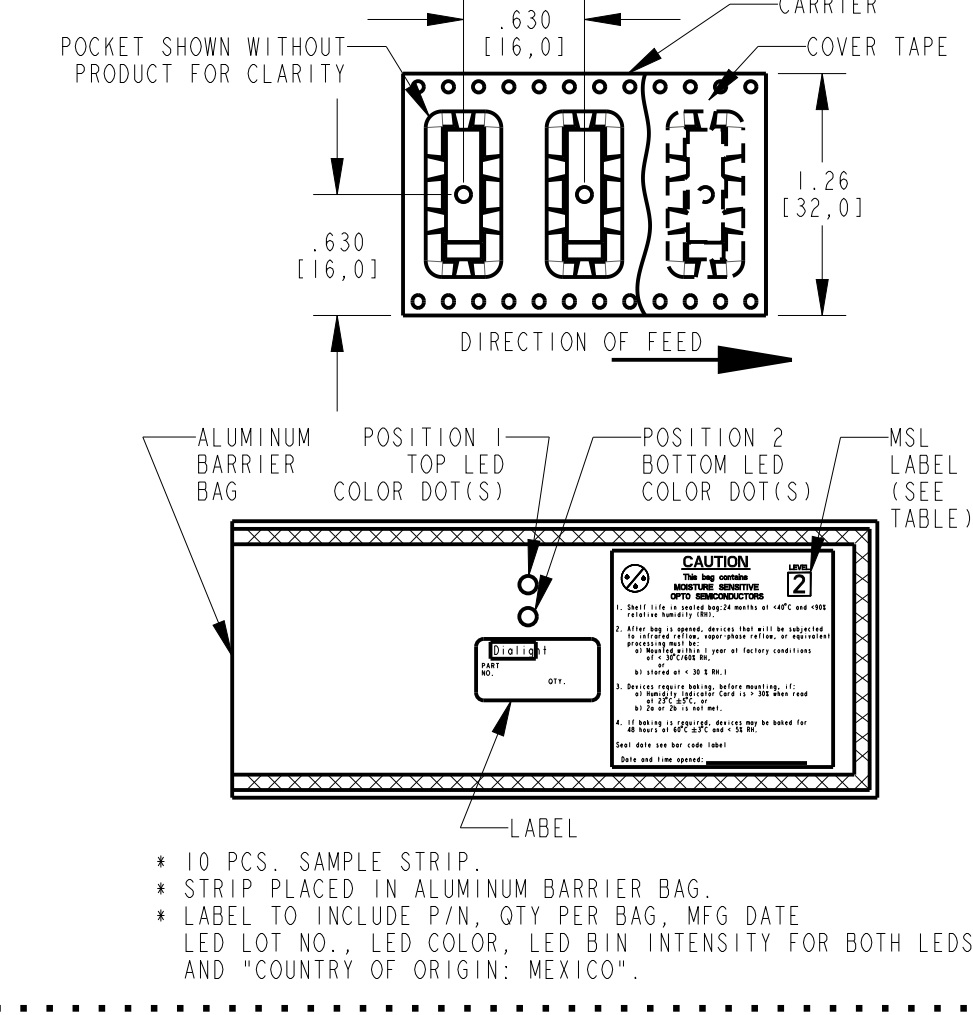


TOLERANCES: ±.002"
SCALE: 4.000

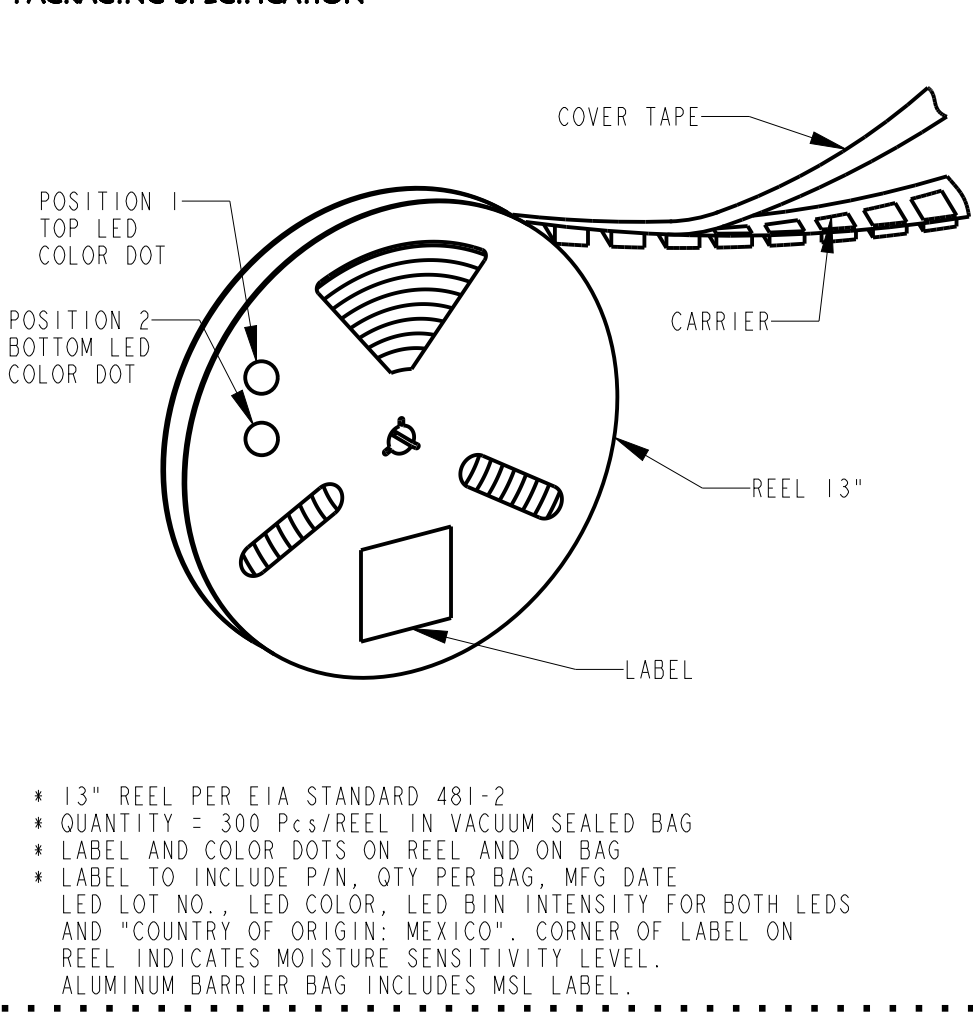
LED COLOR	PIN 1	PIN 2	PIN 3	PIN 4
RED/YELLOW	RED CATHODE	RED ANODE	YELLOW ANODE	YELLOW CATHODE
YELLOW/GREEN	YELLOW CATHODE	YELLOW ANODE	GREEN ANODE	GREEN CATHODE
RED/GREEN	RED CATHODE	RED ANODE	GREEN ANODE	GREEN CATHODE
RED/BLUE	RED CATHODE	RED ANODE	BLUE ANODE	BLUE CATHODE
ORANGE/GREEN	ORANGE CATHODE	ORANGE ANODE	GREEN ANODE	GREEN CATHODE
R/G/B TRI-COLOR	RED CATHODE	COMMON ANODE	GREEN CATHODE	BLUE CATHODE

RECOMMENDED PAD LAYOUT - MULTI-COLOR

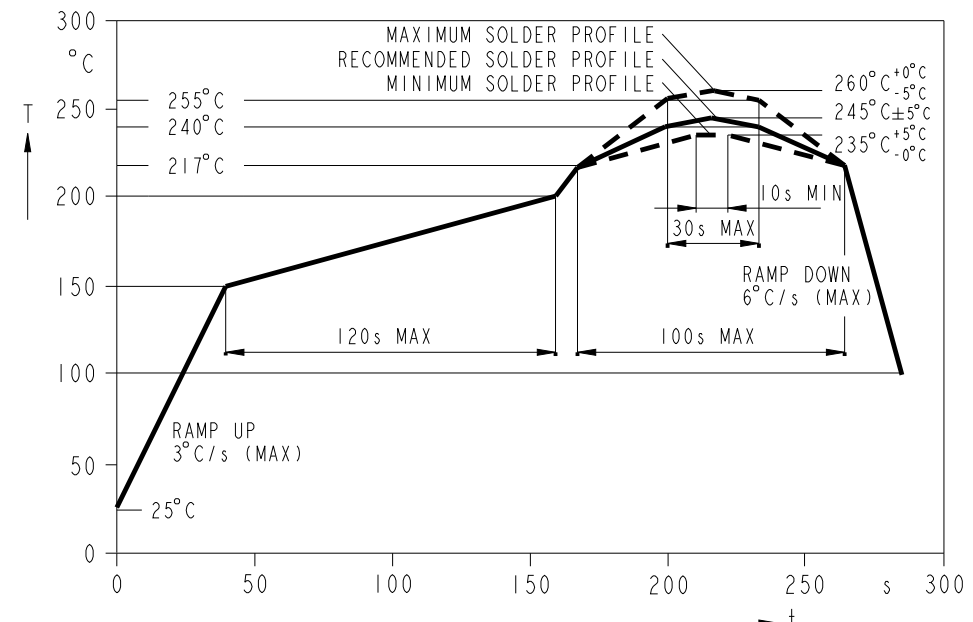
SAMPLE STRIP PACKAGING SPECIFICATION



13" REEL PACKAGING SPECIFICATION



- 13" REEL PER EIA STANDARD 481-2
- QUANTITY = 300 PCS/REEL IN VACUUM SEALED BAG
- LABEL AND COLOR DOTS ON REEL AND ON BAG
- LABEL TO INCLUDE P/N, QTY PER BAG, MFG DATE
- LED LOT NO., LED COLOR, LED BIN INTENSITY FOR BOTH LEDS AND "COUNTRY OF ORIGIN: MEXICO". CORNER OF LABEL ON REEL INDICATES MOISTURE SENSITIVITY LEVEL.
- ALUMINUM BARRIER BAG INCLUDES MSL LABEL



RECOMMENDED ROHS COMPLIANT
REFLOW PROFILE

OPERATING CHARACTERISTICS AT 25°C AMBIENT - RED/GREEN BI-COLOR LED								
#30	COLOR	LUMINOUS INTENSITY (mcd)	TEST CURRENT (mA)	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)	FORWARD VOLTAGE (V)
TYP				MIN	TYP	MAX	TYP	TYP
		RED	3	10	622	628	634	635
	GREEN	4	10	564	570	576	572	2.0 2.5

OPERATING CHARACTERISTICS AT 25°C AMBIENT - YELLOW/GREEN BI-COLOR LED								
#31	COLOR	LUMINOUS INTENSITY (mcd)	TEST CURRENT (mA)	DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)	FORWARD VOLTAGE (V)
TYP		MIN		TYP	MAX	TYP	TYP	MAX
YELLOW		2		10	584	590	596	587
GREEN	3	10	564	570	576	572	2.0	2.5

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	MAX
	RED	21	20	627	633	639	645	2.0	2.3
YELLOW	34	20	580	587	595	591	2.0	2.2	

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)		
	TYP		MIN	TYP	MAX	TYP	TYP	MAX	
	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	MAX	
				TYP						
	RED	31	20		626		635	1.9	2.4	
	GREEN	84	20		525		523	3.4	4.1	
	BLUE	16	20		470		468	3.4	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)	
		TYP		MIN	TYP	MAX	TYP	TYP	MAX
	ORANGE	3	10	600	606	612	610	2.0	2.5
GREEN	4	10	564	570	576	572	2.0	2.5	

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - RED/GREEN BI-COLOR LED		
COLOR	RED	GREEN
POWER DISSIPATION	95	95
PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	500	500
CONTINUOUS FORWARD CURRENT	30	30
LINEAR DERATING FROM 55°C	0.66	0.66
LEAD REFLOW SOLDERING TEMPERATURE (FOR 5 SEC.)	260	260
OPERATING TEMPERATURE	-40 TO +100	-40 TO +100
STORAGE TEMPERATURE	-40 TO +100	-40 TO +100

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - YELLOW/GREEN BI-COLOR LED		
COLOR	YELLOW	GREEN
POWER DISSIPATION	95	95
PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	500	500
CONTINUOUS FORWARD CURRENT	30	30
LINEAR DERATING FROM 55°C	0.66	0.66
LEAD REFLOW SOLDERING TEMPERATURE (FOR 5 SEC.)	260	260
OPERATING TEMPERATURE	-40 TO +100	-40 TO +100
STORAGE TEMPERATURE	-40 TO +100	-40 TO +100

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT
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