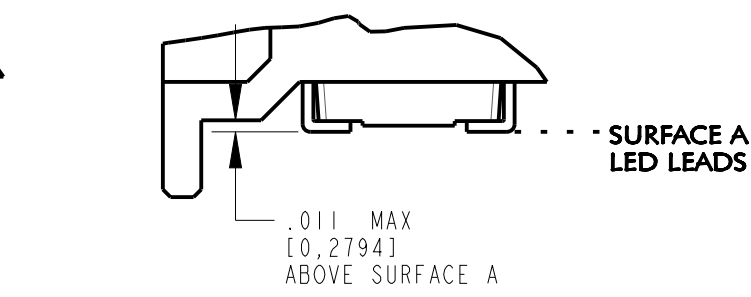
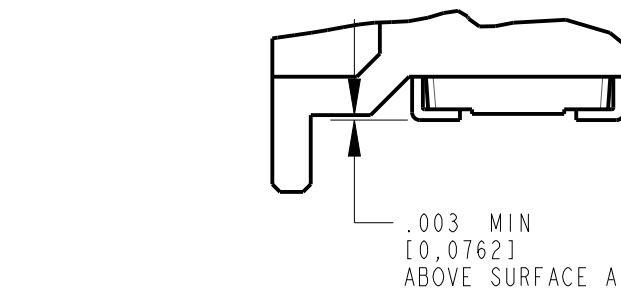
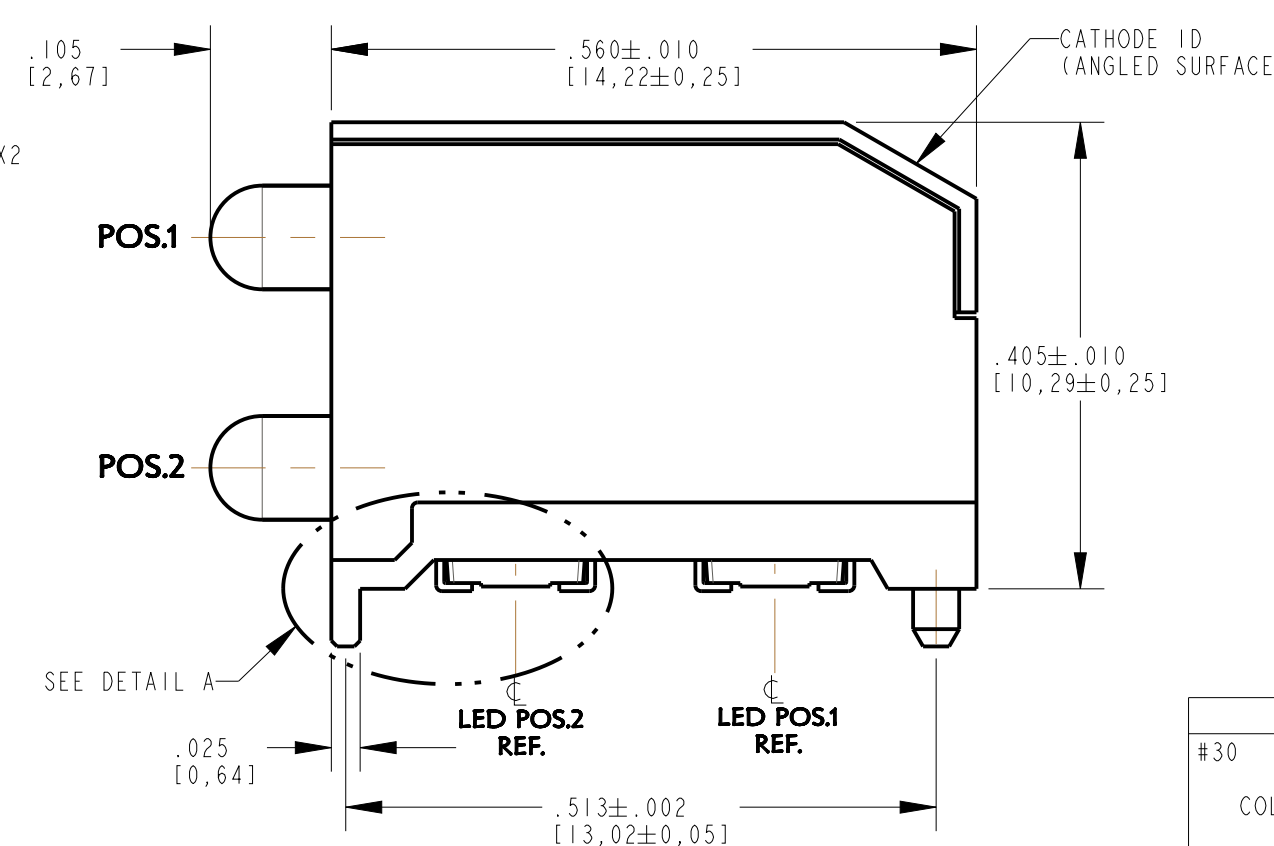
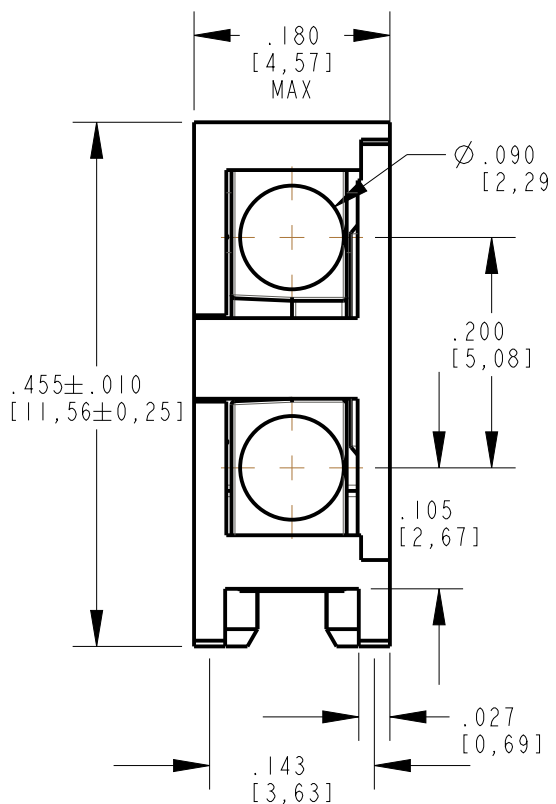


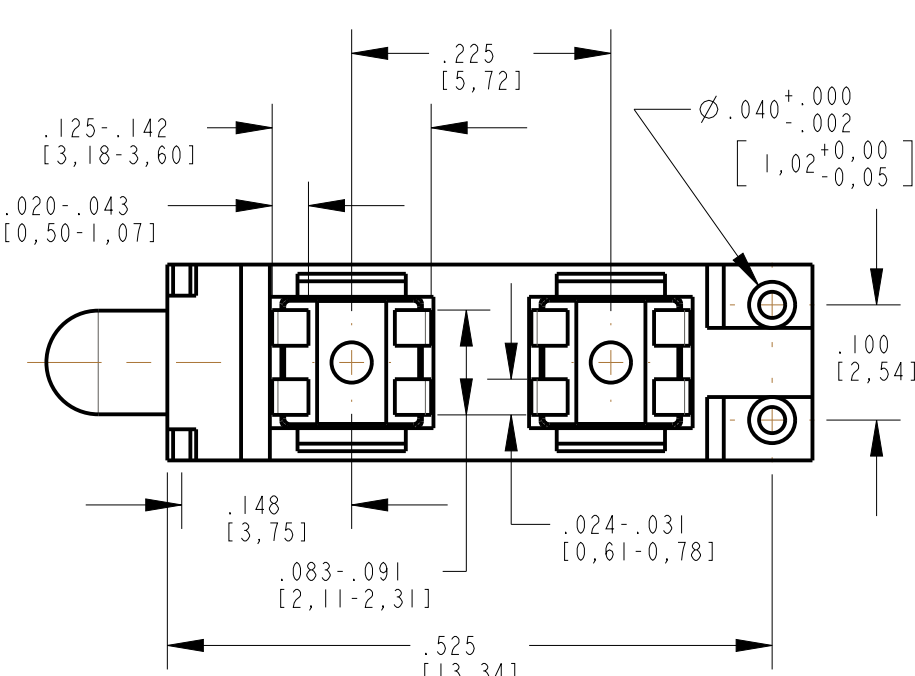
DIALIGHT PART NUMBER	PACKAGING	POSITION 1	POSITION 2	MSL
592-2020-302F	SAMPLE STRIP 13" REEL	RED [HI, EFF]	RED [HI, EFF]	2
592-2020-313F		RED [HI, EFF]	GREEN	2
592-2023-302F		RED [HI, EFF]	GREEN	2
592-2023-313F		RED [AI(GaAs)]	RED [AI(GaAs)]	2
592-2121-302F	SAMPLE STRIP 13" REEL	RED [AI(GaAs)]	RED [AI(GaAs)]	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)		REVERSE CURRENT (μA) MAX
				MIN	TYP	
20	RED [HI, EFF]	3	10	622	628	634
21	RED [AI(GaAs)]	9	10	—	645	—
22	GREEN [HI, INT]	6	10	564	570	576
23	GREEN	4	10	564	570	576
24	YELLOW	2	10	580	587	595
25	ORANGE	2	10	600	606	609
26	BLUE [InGaN]	6	10	462	465	468
27	YELLOW [AI(InGaP)]	60	20	580	587	595
28	WHITE	34	10	X= .285; .33; .367 Y= .259; .33; .401	—	—
29	GREEN [InGaN]	56	20	—	525	—

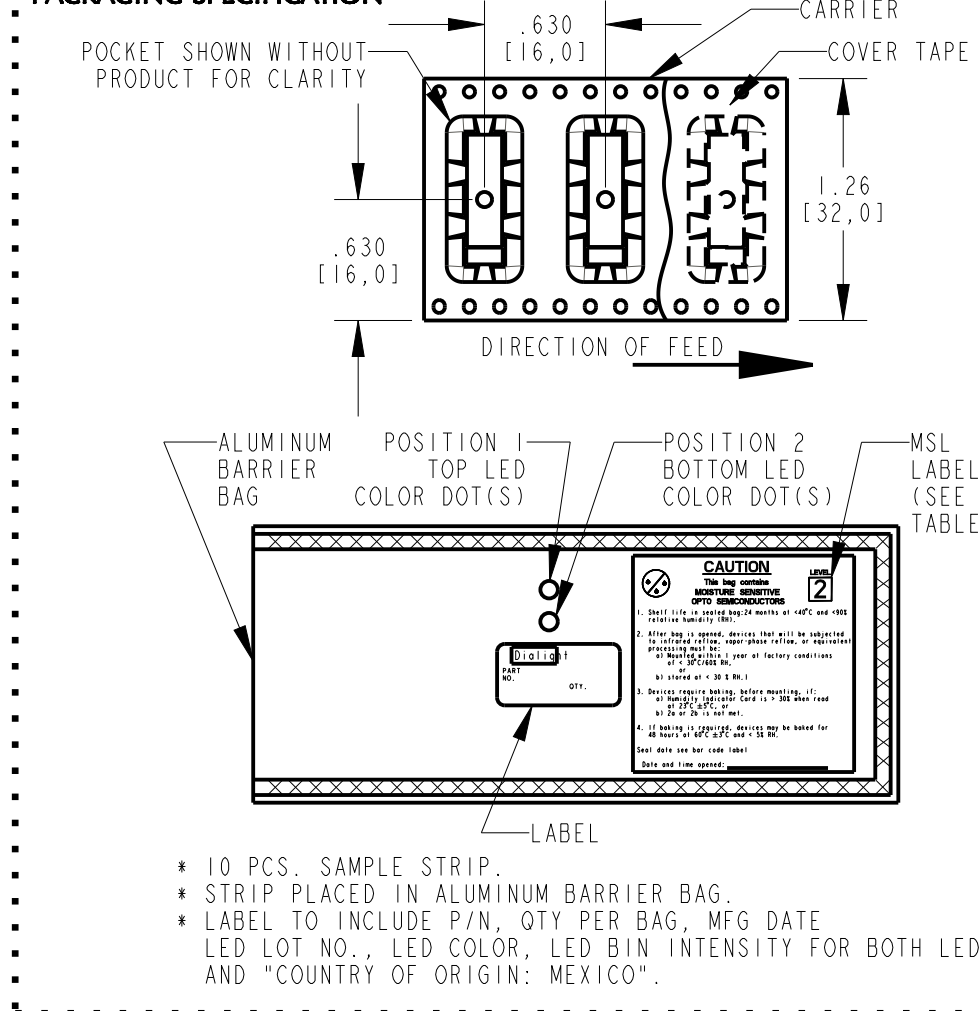
TOLERANCES: ±.002"
SCALE: 4.000

TOLERANCES: ±.002"
SCALE: 4.000

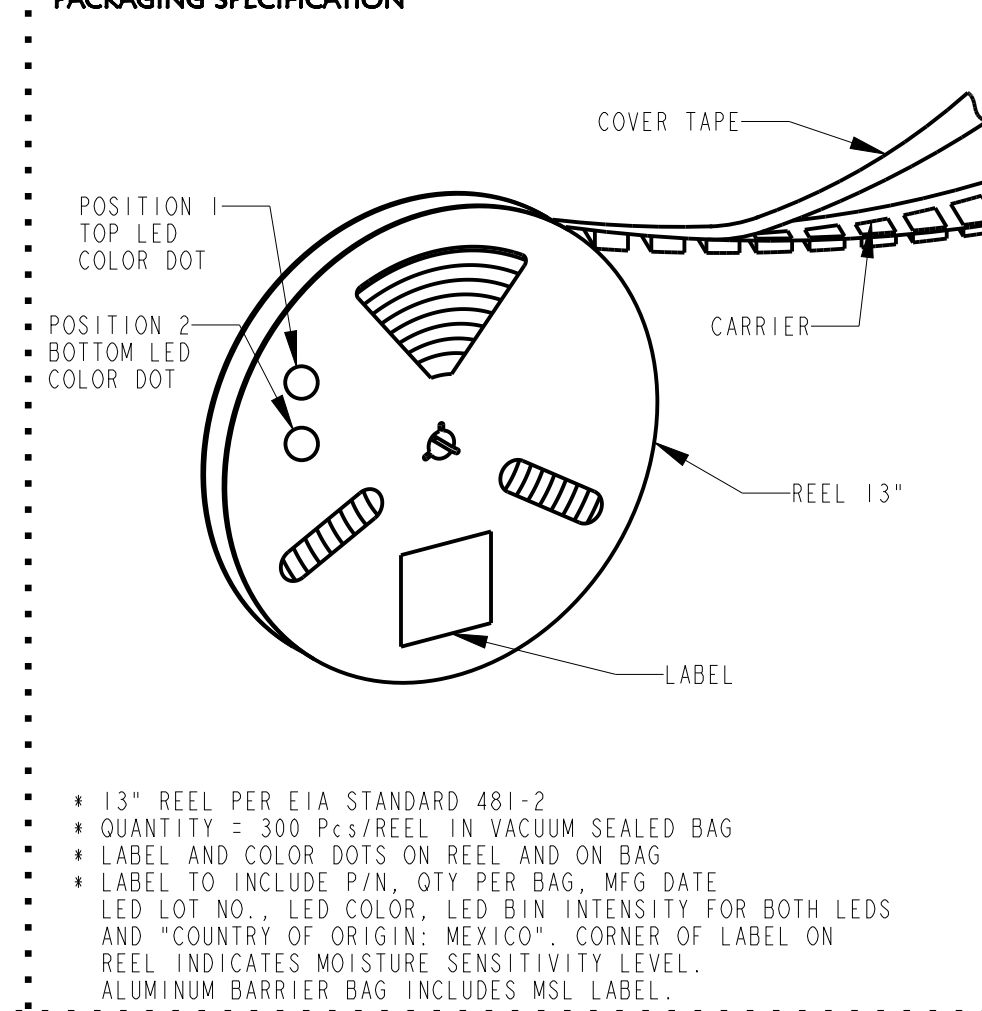
LED COLOR	PIN 1	PIN 2	PIN 3	PIN 4
RED/YELLOW	RED CATHODE	RED ANODE	YELLOW ANODE	YELLOW CATHODE
YELLOW/GREEN	YELLOW CATHODE	YELLOW ANODE	GREEN ANODE	GREEN CATHODE
RED/GREEN	RED CATHODE	RED ANODE	GREEN ANODE	GREEN CATHODE
RED/BLUE	RED CATHODE	RED ANODE	BLUE ANODE	BLUE CATHODE
ORANGE/GREEN	ORANGE CATHODE	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

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

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

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

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

OPERATING CHARACTERISTICS AT 25°C AMBIENT - RED/GRN/BLUE TRI-COLOR LED						
#35	COLOR	LUMINOUS INTENSITY (mcd)	TEST CURRENT (mA)	DOMINANT WAVELENGTH (nm)		FORWARD VOLTAGE (V)
				MIN	TYP	
RED	31	20	626	628	635	1.9
GREEN	84	20	525	523	523	3.4
BLUE	16	20	470	468	468	3.4

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

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - SINGLE COLOR LEDs									
	RED [HI, EFF]	RED [AI(GaAs)]	GREEN	GREEN [HI, INT]	YELLOW	YELLOW [AI(InGaP)]	ORANGE	WHITE	BLUE [InGaN]
POWER DISSIPATION	95	90	95	95	95	80	95	80	114
PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	500	500	500	500	500	200	500	200	200
CONTINUOUS FORWARD CURRENT	30	30	30	30	30	30	30	20	30
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)	0.42 (FROM 40°C)
REVERSE VOLTAGE	12	5	12	12	5	12	5	5	5
LEAD REFLOW SOLDERING TEMPERATURE (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/GREEN BI-COLOR LED		
	COLOR	UNITS
	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	°C
OPERATING TEMPERATURE	-40 TO +100	°C
STORAGE TEMPERATURE	-40 TO +100	°C

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - YELLOW/GREEN BI-COLOR LED		
	COLOR	UNITS
	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	°C
OPERATING TEMPERATURE	-40 TO +100	°C
STORAGE TEMPERATURE	-40 TO +100	°C

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - RED/YELLOW BI-COLOR LED		
	COLOR	UNITS
	RED	YELLOW
POWER DISSIPATION	80	80
PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	1000	200
CONTINUOUS FORWARD CURRENT	30	30
LINEAR DERATING FROM 75°C	0.60	0.60
LEAD REFLOW SOLDERING TEMPERATURE (FOR 5 SEC.)	260	°C
OPERATING TEMPERATURE	-40 TO +100	°C
STORAGE TEMPERATURE	-40 TO +100	°C