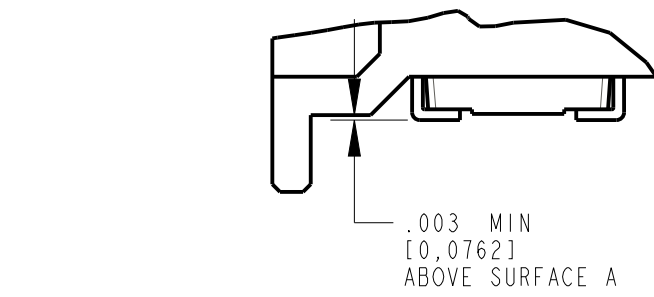
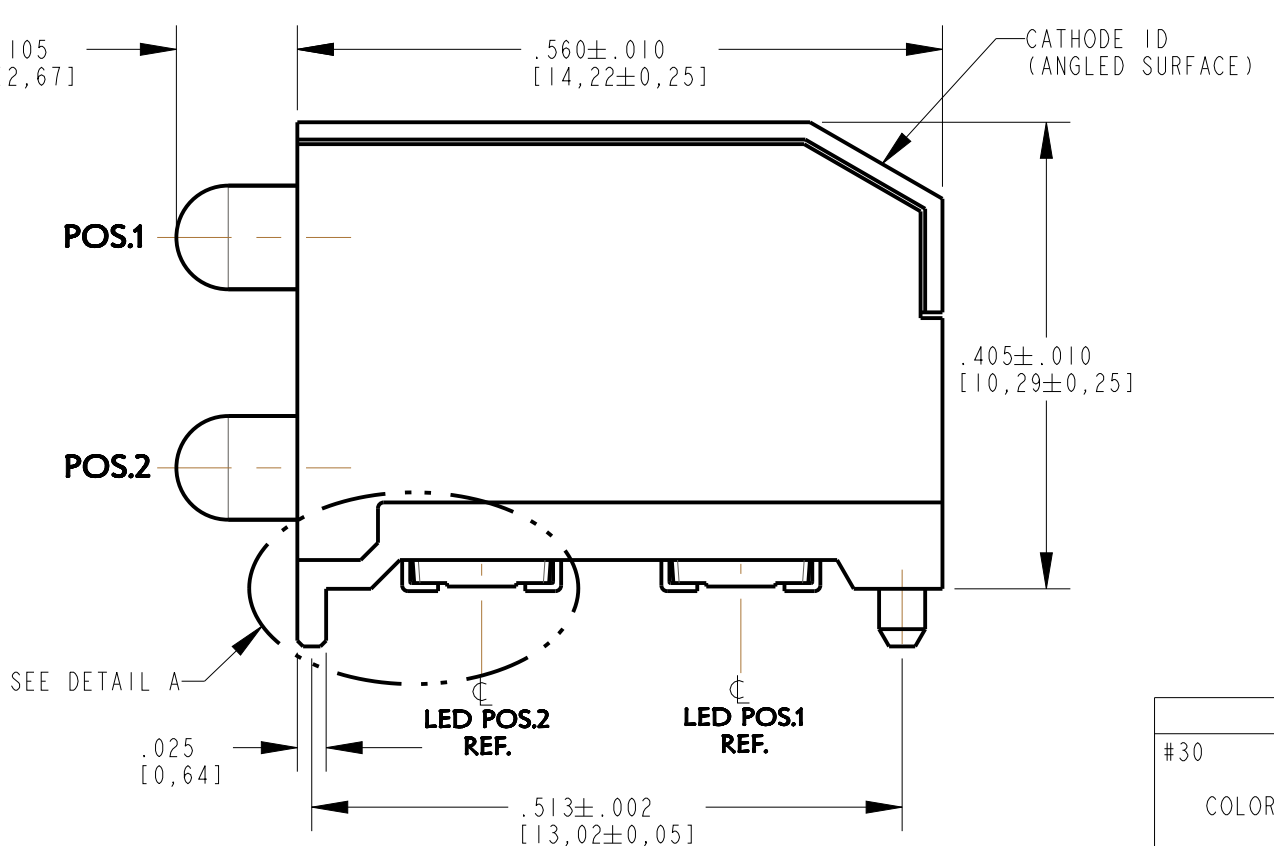
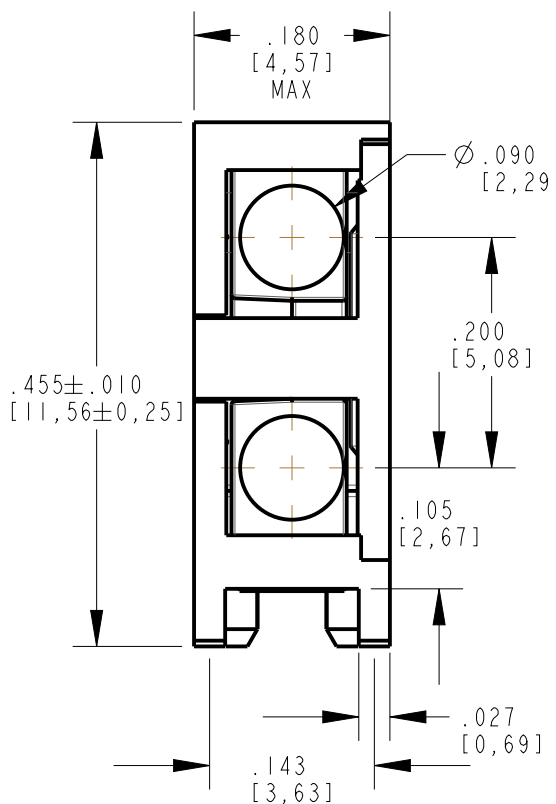


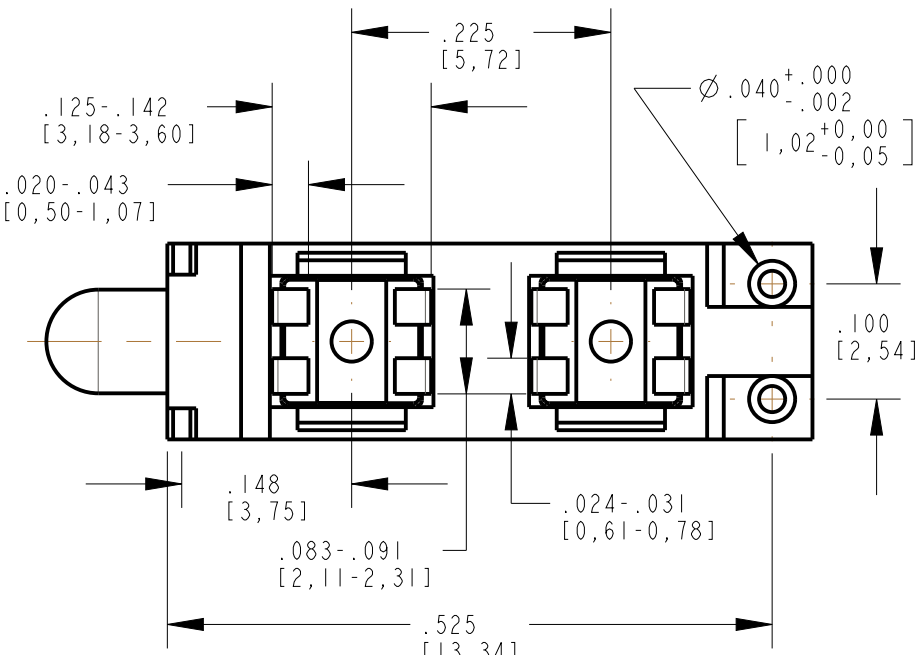
DIALIGHT PART NUMBER	PACKAGING	POSITION 1	POSITION 2	MSL
592-2020-302F	SAMPLE STRIP 13" REEL	RED [HI, EFF]	RED [HI, EFF]	2
592-2020-313F		RED [HI, EFF]	GREEN	2
592-2023-302F	SAMPLE STRIP 13" REEL	RED [HI, EFF]	GREEN	2
592-2023-313F		RED [AI(GaAs)]	RED [AI(GaAs)]	2
592-2121-302F	SAMPLE STRIP 13" REEL	RED [AI(GaAs)]	RED [AI(GaAs)]	2
592-2121-313F		RED [AI(GaAs)]	YELLOW	2
592-2124-302F	SAMPLE STRIP 13" REEL	RED [AI(GaAs)]	YELLOW	2
592-2124-313F		RED [AI(GaAs)]	BLUE [InGaN]	2
592-2222-302F	SAMPLE STRIP 13" REEL	GREEN [HI, INT]	GREEN [HI, INT]	2
592-2222-313F		GREEN [HI, INT]	RED [HI, EFF]	2
592-2320-302F	SAMPLE STRIP 13" REEL	GREEN	GREEN	2
592-2320-313F		GREEN	YELLOW	2
592-2323-302F	SAMPLE STRIP 13" REEL	GREEN	YELLOW	2
592-2323-313F		GREEN	RED [InGaN]	2
592-2420-302F	SAMPLE STRIP 13" REEL	YELLOW	RED [HI, EFF]	2
592-2420-313F		YELLOW	GREEN [HI, INT]	2
592-2422-302F	SAMPLE STRIP 13" REEL	YELLOW	GREEN [HI, INT]	2
592-2422-313F		YELLOW	YELLOW	2
592-2423-302F	SAMPLE STRIP 13" REEL	YELLOW	GREEN	2
592-2423-313F		YELLOW	YELLOW	2
592-2436-302F	SAMPLE STRIP 13" REEL	YELLOW	ORANGE/GREEN	2
592-2436-313F		YELLOW	ORANGE	2
592-2525-302F	SAMPLE STRIP 13" REEL	BLUE [InGaN]	BLUE [InGaN]	2
592-2525-313F		BLUE [InGaN]	YELLOW	2
592-2626-302F	SAMPLE STRIP 13" REEL	BLUE [InGaN]	WHITE	2
592-2626-313F		BLUE [InGaN]	YELLOW/GREEN	2
592-2727-302F	SAMPLE STRIP 13" REEL	YELLOW [AlInGaP]	YELLOW [AlInGaP]	2
592-2727-313F		YELLOW [AlInGaP]	BLUE [InGaN]	2
592-2826-302F	SAMPLE STRIP 13" REEL	WHITE	BLUE [InGaN]	2
592-2826-313F		WHITE	WHITE	2
592-2926-302F	SAMPLE STRIP 13" REEL	TRUE GREEN [InGaN]	BLUE [InGaN]	2a
592-2926-313F		GREEN [InGaN]	YELLOW [AlInGaP]	2a
592-3030-302F	SAMPLE STRIP 13" REEL	RED/GREEN	RED/GREEN	2
592-3030-313F		RED/GREEN	YELLOW/GREEN	2
592-3031-302F	SAMPLE STRIP 13" REEL	RED/GREEN	RED/BLUE	2a
592-3031-313F		RED/GREEN	BLUE [InGaN]	2
592-3126-302F	SAMPLE STRIP 13" REEL	YELLOW/GREEN	YELLOW/GREEN	2
592-3126-313F		YELLOW/GREEN	RED/YELLOW	2
592-3232-302F	SAMPLE STRIP 13" REEL	RED/YELLOW	ORANGE/GREEN	2
592-3232-313F		RED/YELLOW	RED/GRN/BLUE	2
592-3236-302F	SAMPLE STRIP 13" REEL	RED/GRN/BLUE	RED/GRN/BLUE	2
592-3236-313F		RED/GRN/BLUE	RED/GRN/BLUE	2
592-3535-302F	SAMPLE STRIP 13" REEL			
592-3535-313F				



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 [AlInGaP]	60	20	580	587	595
28	WHITE	34	10	X= .285; Y= .259; Z= .33; .367; .33; .401	—	—
29	GREEN [InGaN]	56	20	—	525	—

TOLERANCES: ±.002"
SCALE: 4.000

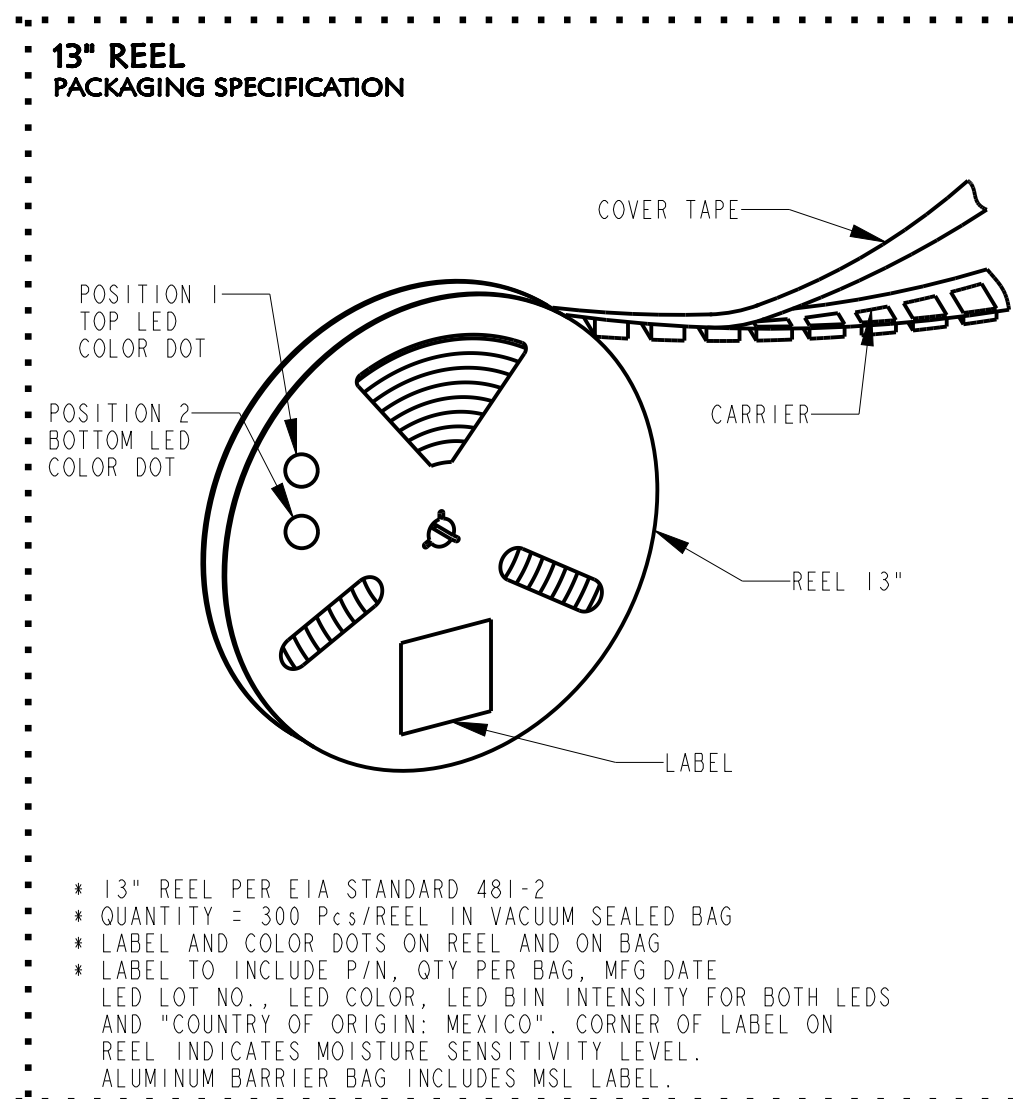
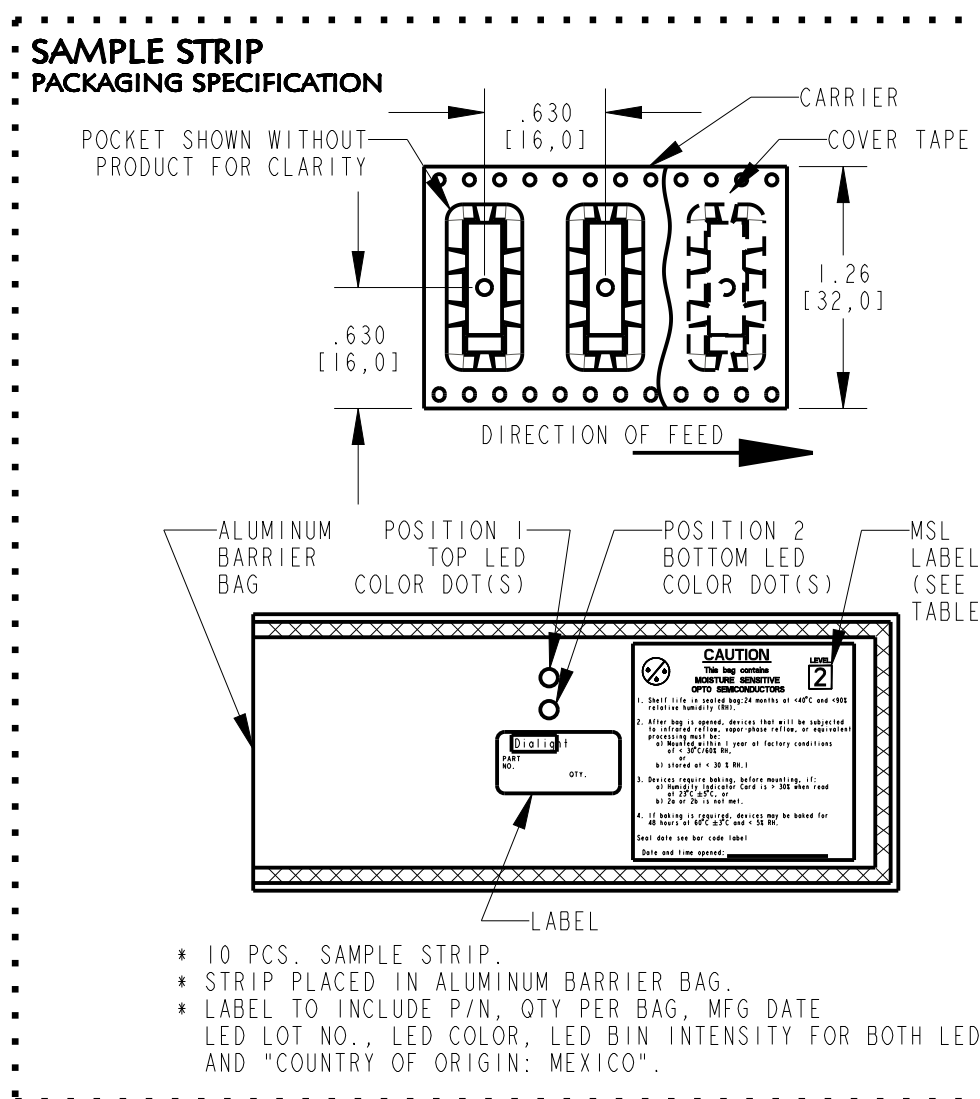
LED COLOR PIN 1 PIN 2
SINGLE COLOR CATHODE ANODE

RECOMMENDED PAD LAYOUT - SINGLE COLOR

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



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	GREEN	3	10	622	628	634
		4	10	564	570	576

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	GREEN	2	10	584	590	596
		3	10	564	570	576

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	YELLOW	21	20	627	633	639
		34	20	580	587	595

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	BLUE	21	10	620	625	630
		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	GREEN	31	20	626	635	1.9
		84	20	525	523	3.4
		16	20	470	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	GREEN	3	10	600	606	612
		4	10	564	570	576

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - SINGLE COLOR LEDs									
POWER DISSIPATION	PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	CONTINUOUS FORWARD CURRENT	LINEAR DERATING FROM 60°C, UNLESS OTHERWISE NOTED	REVERSE VOLTAGE	LEAD REFLOW SOLDERING TEMPERATURE (FOR 5 SEC.)	OPERATING TEMPERATURE	STORAGE TEMPERATURE	COLOR	
								RED [HI, EFF]	RED [AI(GaAs)]
95	90	95	95	95	80	95	80	100	114
500	500	500	500	500	200	500	200	200	200
30	30	30	30	30	30	30	20	30	30
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)	0.42	0.42
12	5	12	12	5	12	5	5	5	5
260	—	—	—	—	—	—	—	—	—
-40 TO +100	-40 TO +100	-40 TO +100	-40 TO +100	-40 TO +100	-40 TO +100	-40 TO +100	-40 TO +100	-40 TO +100	-40 TO +100

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - RED/GREEN BI-COLOR LED		
POWER DISSIPATION	PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	CONTINUOUS FORWARD CURRENT
95	95	95
500	500	500
30	30	30
0.66	0.66	0.66
260	—	—
-40 TO +100	-40 TO +100	-40 TO +100
-40 TO +100	-40 TO +100	-40 TO +100

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - YELLOW/GREEN BI-COLOR LED		
POWER DISSIPATION	PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	CONTINUOUS FORWARD CURRENT
95	95	95
500	500	500
30	30	30
0.66	0.66	0.66
260	—	—
-40 TO +100	-40 TO +100	-40 TO +100
-40 TO +100	-40 TO +100	-40 TO +100

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - RED/YELLOW BI-COLOR LED		
POWER DISSIPATION	PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10μs PULSE WIDTH)	CONTINUOUS FORWARD CURRENT
80	80	80
1000	200	200
30	30	30
0.66	0.66	0.66
260	—	—
-40 TO +100	-40 TO +100	-40 TO +100
-40 TO +100	-40 TO +100	-40 TO +100

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - RED/BLUE BI-COLOR LED		
POWER DISSIPATION	PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 10ms PULSE WIDTH)	CONTINUOUS FORWARD CURRENT
100	200	200
30	30	30
1.0	0.50	0.50
260	—	—
-40 TO +100	-40 TO +100	-40 TO +100
-40 TO +100	-40 TO +100	-40 TO +100

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - RED/GRN/BLUE TRI-COLOR LED				
POWER DISSIPATION	PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 10ms PULSE WIDTH)	CONTINUOUS FORWARD CURRENT	LINEAR DERATING FROM 60°C, UNLESS OTHERWISE NOTED	REVERSE VOLTAGE
72	120	120	120	114
30	20	20	20	200
1.00	0.50	0.50	0.50	0.42
0.75	0.30	0.30	0.30	0.42
260	—	—	—	—
-55 TO +100	-55 TO +100	-55 TO +100	-55 TO +100	-55 TO +100
-55 TO +100	-55 TO +100	-55 TO +100	-55 TO +100	-55 TO +100

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

