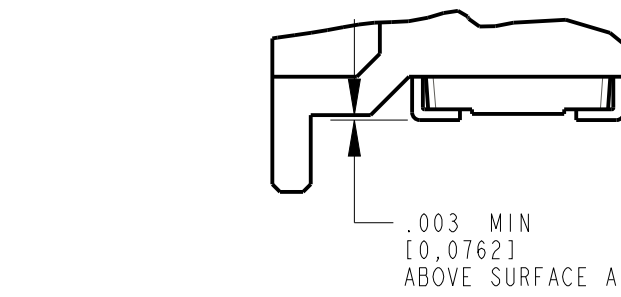
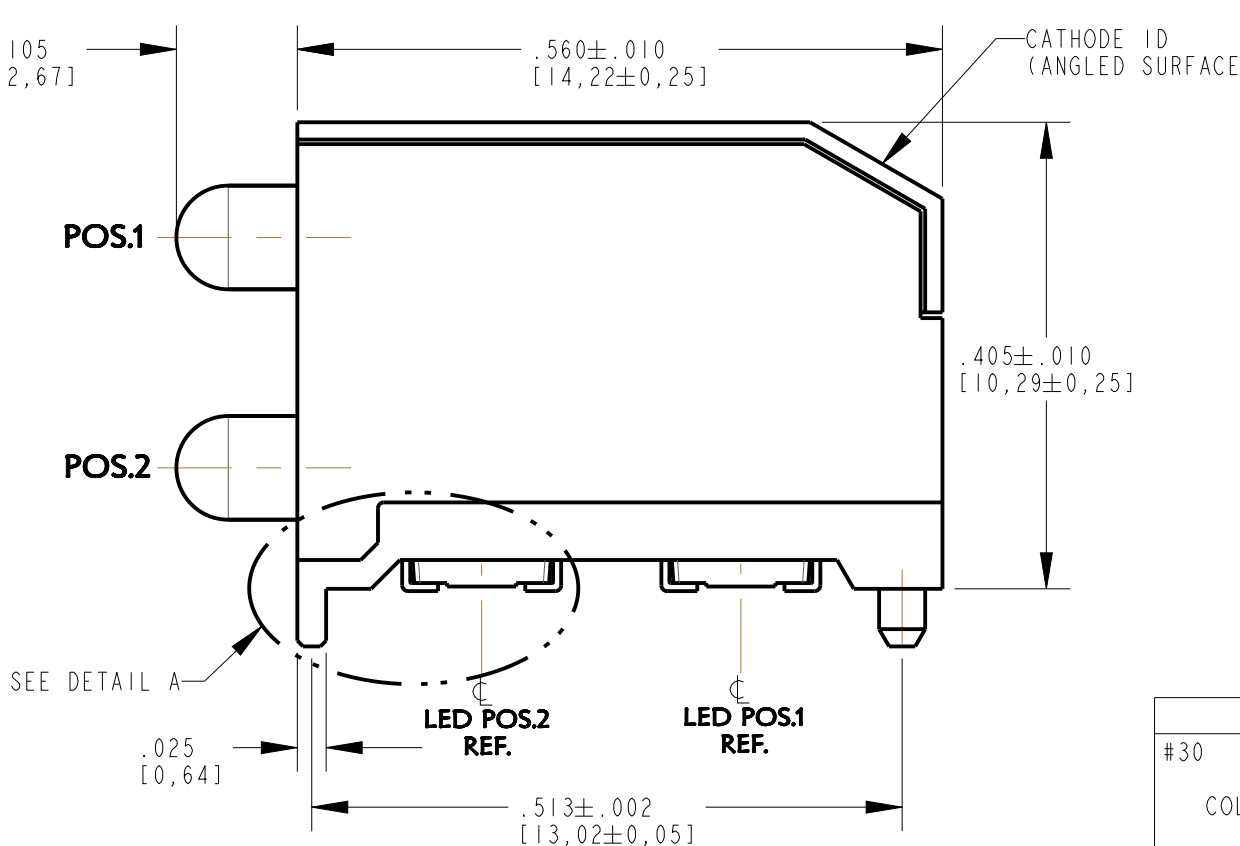
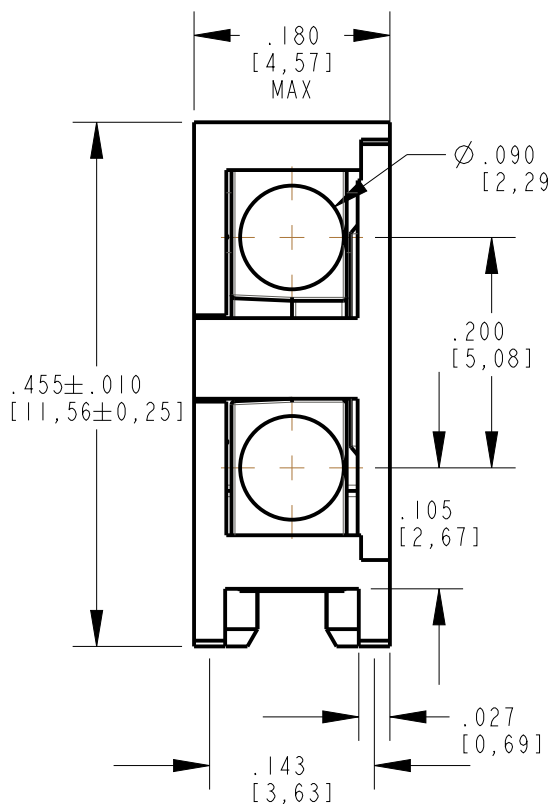


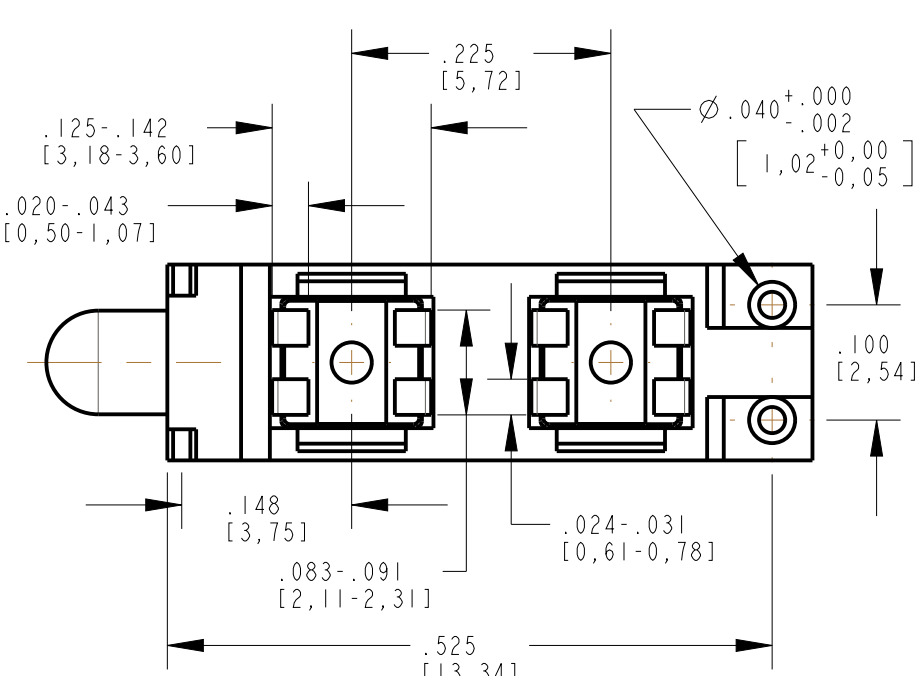
DIALIGHT PART NUMBER	PACKAGING	POSITION 1	POSITION 2	MSL
592-2020-302F	SAMPLE STRIP 13" REEL	RED [HI, EFF]	RED [HI, EFF]	2
592-2020-313F		RED [HI, EFF]	GREEN	2
592-2023-302F		RED [HI, EFF]	GREEN	2
592-2023-313F		RED [AI(GaAs)]	RED [AI(GaAs)]	2
592-2121-302F	SAMPLE STRIP 13" REEL	RED [AI(GaAs)]	RED [AI(GaAs)]	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		GREEN [HI, INT]	GREEN [HI, INT]	2
592-2222-313F		GREEN [HI, INT]	RED [HI, EFF]	2
592-2320-302F		GREEN [HI, EFF]	GREEN [HI, INT]	2
592-2320-313F	SAMPLE STRIP 13" REEL	GREEN [HI, INT]	GREEN [HI, INT]	2
592-2323-302F		GREEN [HI, INT]	YELLOW	2
592-2323-313F		GREEN [HI, INT]	YELLOW	2
592-2324-302F		GREEN [HI, INT]	RED [HI, INT]	2
592-2326-302F	SAMPLE STRIP 13" REEL	GREEN [HI, INT]	YELLOW	2
592-2326-313F		GREEN [HI, INT]	YELLOW	2
592-2420-302F		GREEN [HI, INT]	YELLOW	2
592-2420-313F		GREEN [HI, INT]	YELLOW	2
592-2422-302F	SAMPLE STRIP 13" REEL	GREEN [HI, INT]	YELLOW	2
592-2422-313F		GREEN [HI, INT]	YELLOW	2
592-2423-302F		GREEN [HI, INT]	YELLOW	2
592-2423-313F		GREEN [HI, INT]	YELLOW	2
592-2424-302F	SAMPLE STRIP 13" REEL	GREEN [HI, INT]	YELLOW	2
592-2424-313F		GREEN [HI, INT]	YELLOW	2
592-2436-302F		GREEN [HI, INT]	ORANGE/GREEN	2
592-2436-313F		GREEN [HI, INT]	ORANGE/GREEN	2
592-2525-302F	SAMPLE STRIP 13" REEL	ORANGE [InGaP]	ORANGE [InGaP]	2
592-2525-313F		ORANGE [InGaP]	ORANGE [InGaP]	2
592-2626-302F		BLUE [InGaP]	BLUE [InGaP]	2
592-2626-313F		BLUE [InGaP]	BLUE [InGaP]	2
592-2627-302F	SAMPLE STRIP 13" REEL	BLUE [InGaP]	YELLOW	2
592-2627-313F		BLUE [InGaP]	YELLOW	2
592-2628-302F		BLUE [InGaP]	WHITE	2
592-2628-313F		BLUE [InGaP]	WHITE	2
592-2631-302F	SAMPLE STRIP 13" REEL	BLUE [InGaP]	YELLOW/GREEN	2
592-2631-313F		BLUE [InGaP]	YELLOW/GREEN	2
592-2727-302F		YELLOW [AlInGaP]	YELLOW [AlInGaP]	2
592-2727-313F		YELLOW [AlInGaP]	YELLOW [AlInGaP]	2
592-2826-302F	SAMPLE STRIP 13" REEL	WHITE [InGaP]	BLUE [InGaP]	2
592-2826-313F		WHITE [InGaP]	BLUE [InGaP]	2
592-2828-302F		WHITE [InGaP]	WHITE	2
592-2828-313F		WHITE [InGaP]	WHITE	2
592-2926-302F	SAMPLE STRIP 13" REEL	TRUE GREEN [InGaP]	BLUE [InGaP]	2a
592-2926-313F		TRUE GREEN [InGaP]	BLUE [InGaP]	2a
592-2927-302F		GREEN [InGaP]	YELLOW [AlInGaP]	2a
592-2927-313F		GREEN [InGaP]	YELLOW [AlInGaP]	2a
592-3030-302F	SAMPLE STRIP 13" REEL	RED/GREEN [InGaP]	RED/GREEN [InGaP]	2
592-3030-313F		RED/GREEN [InGaP]	RED/GREEN [InGaP]	2
592-3031-302F		RED/GREEN [InGaP]	YELLOW/GREEN [InGaP]	2
592-3031-313F		RED/GREEN [InGaP]	YELLOW/GREEN [InGaP]	2
592-3034-302F	SAMPLE STRIP 13" REEL	RED/GREEN [InGaP]	RED/BLUE	2a
592-3034-313F		RED/GREEN [InGaP]	RED/BLUE	2a
592-3126-302F		YELLOW/GREEN [InGaP]	BLUE [InGaP]	2
592-3126-313F		YELLOW/GREEN [InGaP]	BLUE [InGaP]	2
592-3131-302F	SAMPLE STRIP 13" REEL	YELLOW/GREEN [InGaP]	YELLOW/GREEN	2
592-3131-313F		YELLOW/GREEN [InGaP]	YELLOW/GREEN	2
592-3232-302F		RED/YELLOW [InGaP]	RED/YELLOW	2
592-3232-313F		RED/YELLOW [InGaP]	RED/YELLOW	2
592-3236-302F	SAMPLE STRIP 13" REEL	RED/YELLOW [InGaP]	ORANGE/GREEN	2
592-3236-313F		RED/YELLOW [InGaP]	ORANGE/GREEN	2
592-3535-302F		RED/GRN/BLUE [InGaP]	RED/GRN/BLUE	2
592-3535-313F		RED/GRN/BLUE [InGaP]	RED/GRN/BLUE	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)
				MIN	TYP	MAX
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 [InGaP]	6	10	462	465	468
27	YELLOW [AlInGaP]	60	20	580	587	595
28	WHITE	34	10	X= .285; .33; .367 Y= .259; .33; .401	—	—
29	GREEN [InGaP]	56	20	—	525	—

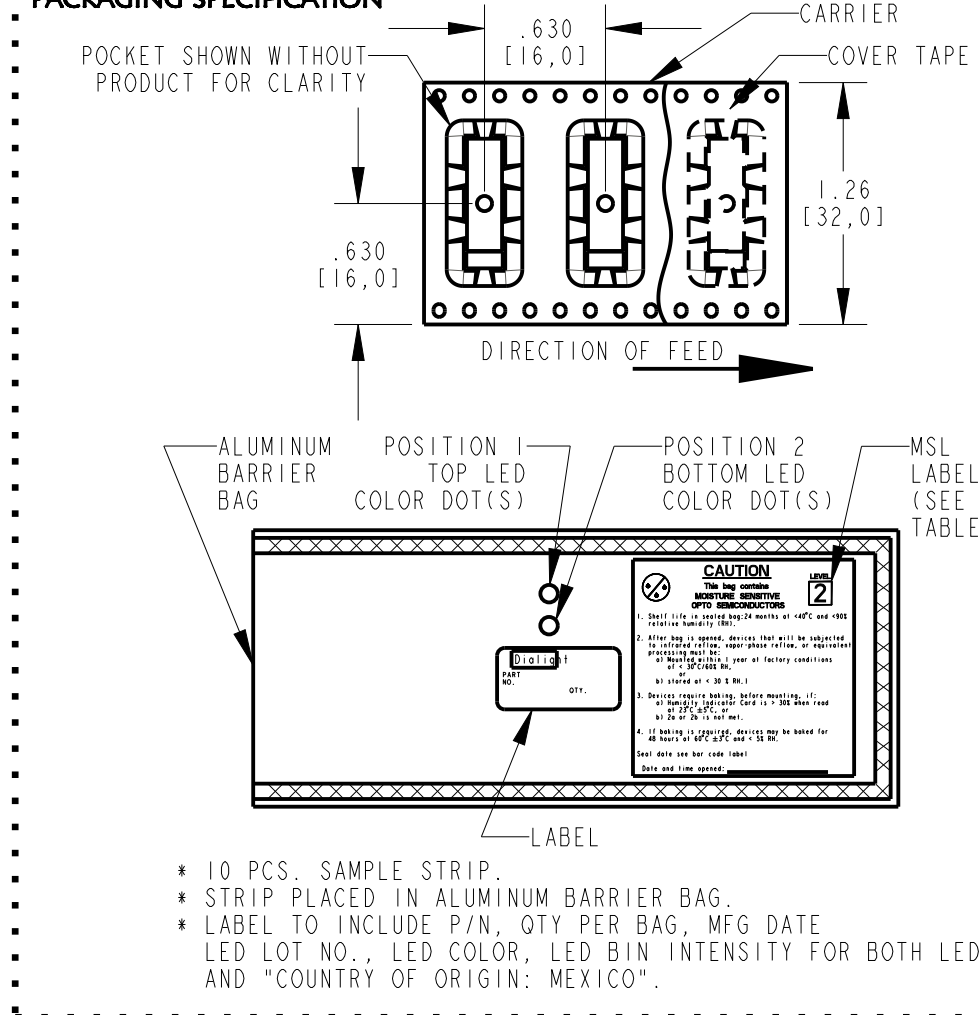
TOLERANCES: ±.002"
SCALE: 4.000

TOLERANCES: ±.002"
SCALE: 4.000

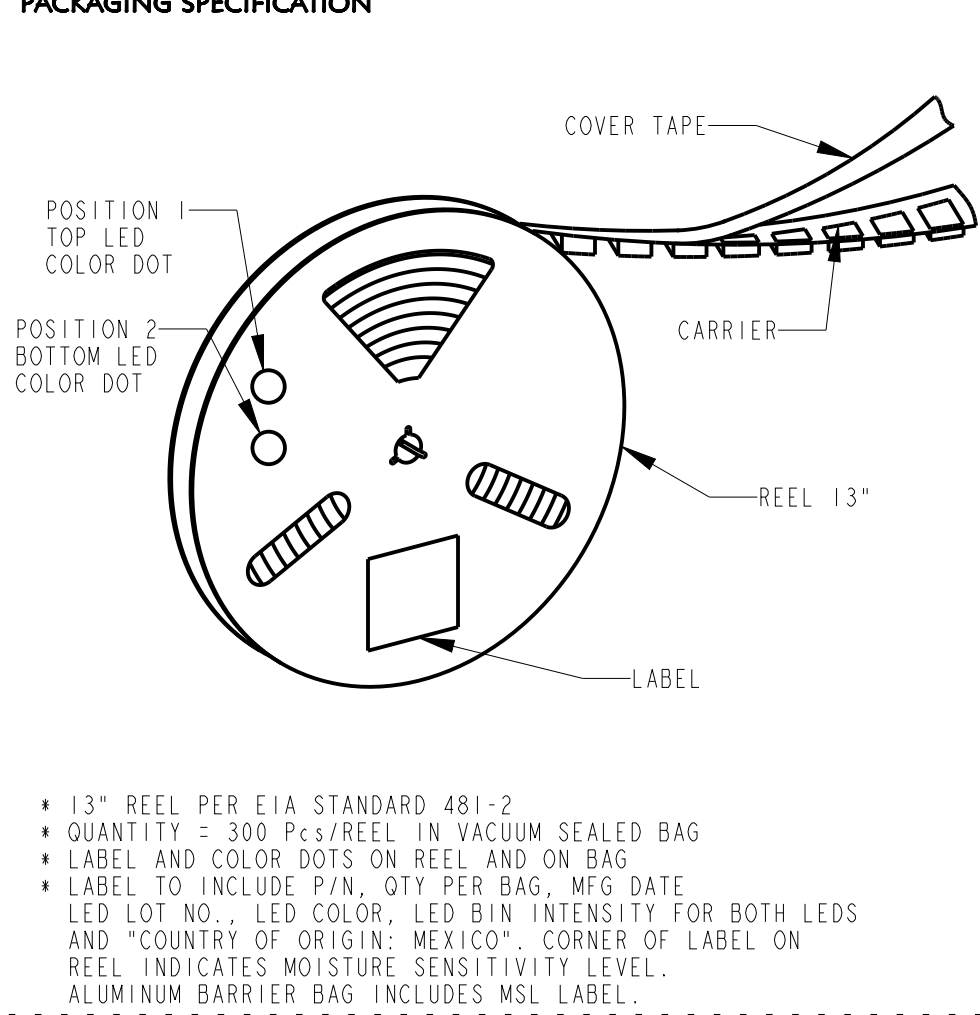
LED COLOR	PIN 1	PIN 2	PIN 3	PIN 4
RED/YELLOW	RED CATHODE	RED ANODE	YELLOW ANODE	YELLOW CATHODE
YELLOW/GREEN	YELLOW CATHODE	YELLOW ANODE	GREEN CATHODE	GREEN ANODE
RED/GREEN	RED CATHODE	RED ANODE	GREEN CATHODE	GREEN ANODE
RED/BLUE	RED CATHODE	RED ANODE	BLUE ANODE	BLUE CATHODE
ORANGE/GREEN	ORANGE CATHODE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

RECOMMENDED PAD LAYOUT - MULTI-COLOR

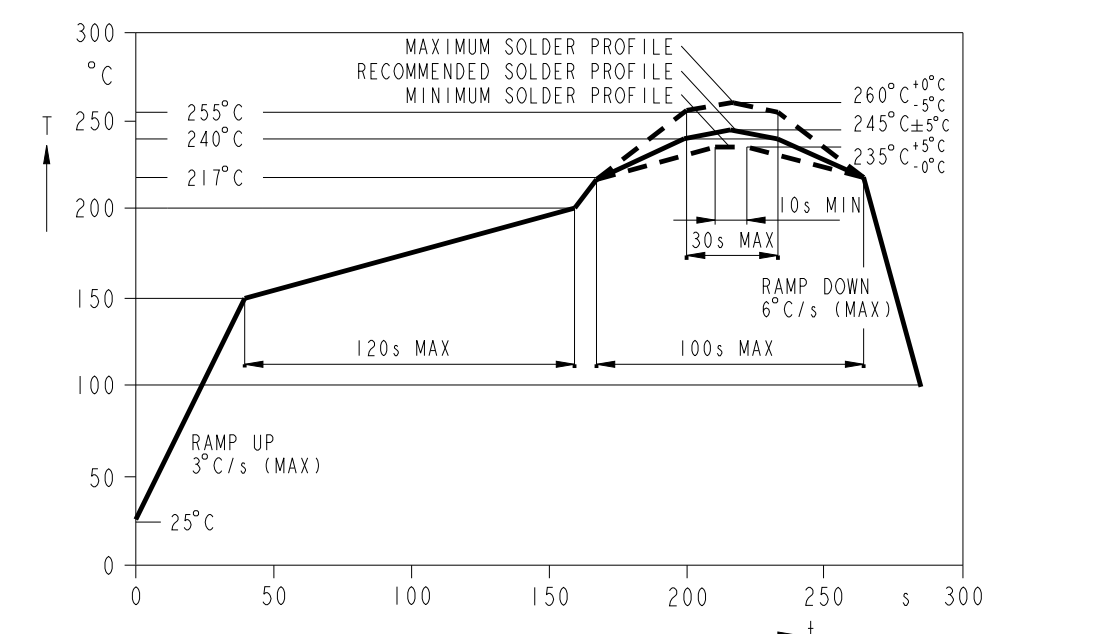
SAMPLE STRIP
PACKAGING SPECIFICATION



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)
				MIN	TYP	MAX
RED	GREEN	3	10	622	628	634
		4	10	564	570	576

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	260
OPERATING TEMPERATURE			-40 TO +100	-40 TO +100
STORAGE TEMPERATURE			-40 TO +100	-40 TO +100

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)
				MIN	TYP	MAX
YELLOW	GREEN	2	10	584	590	596
		3	10	564	570	576

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	260
OPERATING TEMPERATURE			-40 TO +100	-40 TO +100
STORAGE TEMPERATURE			-40 TO +100	-40 TO +100

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)
				MIN	TYP	MAX
RED	YELLOW	21	20	627	633	639
		34	20	580	587	595

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	260
OPERATING TEMPERATURE			-40 TO +100	-40 TO +100
STORAGE TEMPERATURE			-40 TO +100	-40 TO +100

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)
				MIN	TYP	MAX
RED	BLUE	21	10	620	625	630
		24	10	465	467	470

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - RED/BLUE BI-COLOR LED			COLOR	UNITS
			RED	BLUE
POWER DISSIPATION			100	200
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 10ms PULSE WIDTH)			500	500
CONTINUOUS FORWARD CURRENT			30	30
LINEAR DERATING FROM 80°C			1.0	0.50
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

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)
				MIN	TYP	MAX
RED	GREEN	31	20	626	635	635
		84	20	525	523	523
		16	20	470	468	468

ABSOLUTE MAXIMUM RATINGS AT 25°C AMBIENT - RED/GRN/BLUE TRI-COLOR LED		COLOR		
		RED	GREEN	BLUE
POWER DISSIPATION		72	120	120
CONTINUOUS FORWARD CURRENT		30	20	20
LINEAR DERATING FROM 80°C (*BLUE & GREEN FROM 70°C) 1 CHIP ON		1.00	*0.50	*0.50
LINEAR DERATING FROM 65°C (*BLUE & GREEN FROM 50°C) 3 CHIPS ON		0.75	*0.30	*0.30
LEAD REFLOW SOLDERING TEMPERATURE (FOR 5 SEC.)		260		
OPERATING TEMPERATURE		-55 TO +100		
STORAGE TEMPERATURE		-55 TO +100		