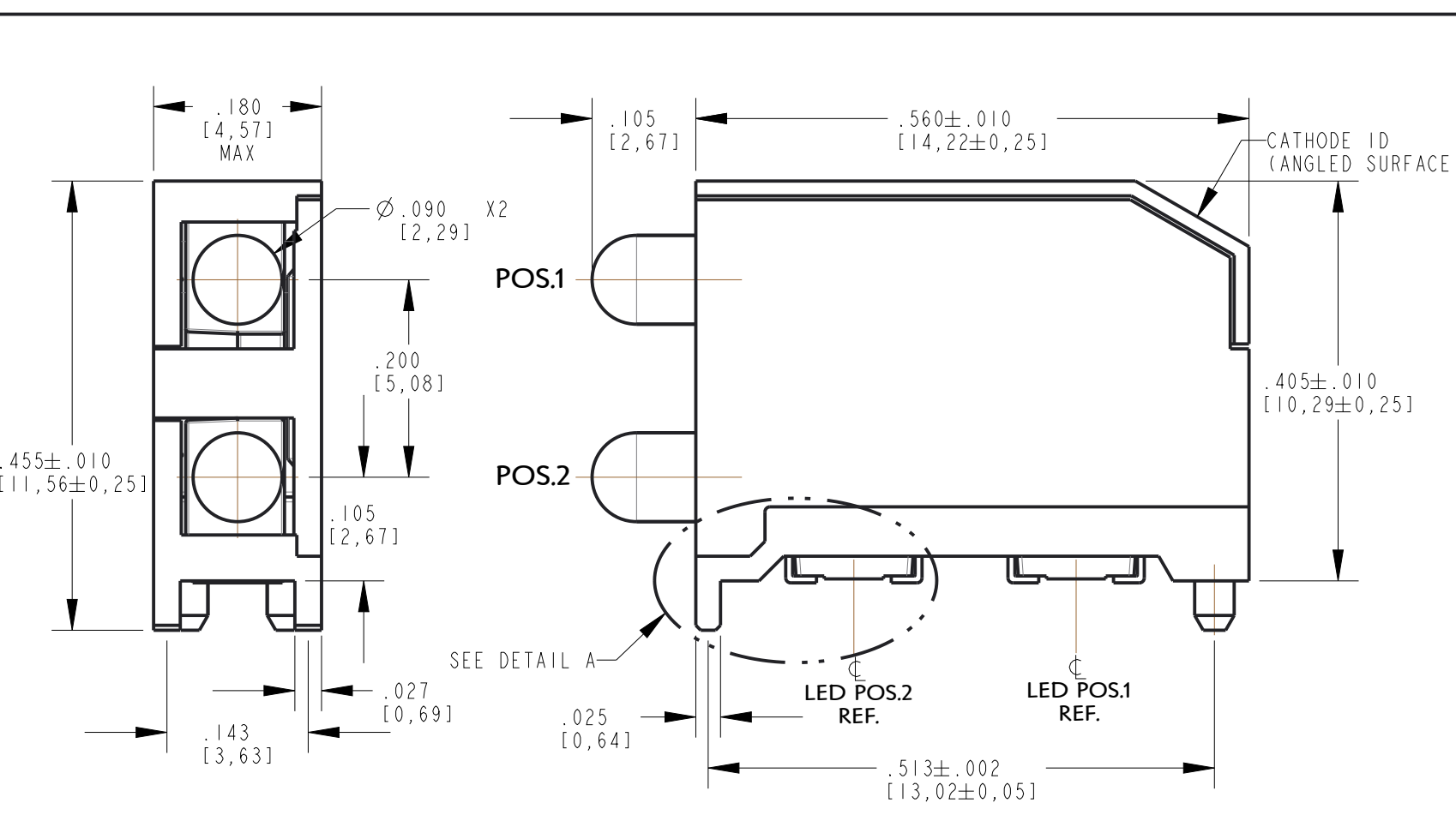
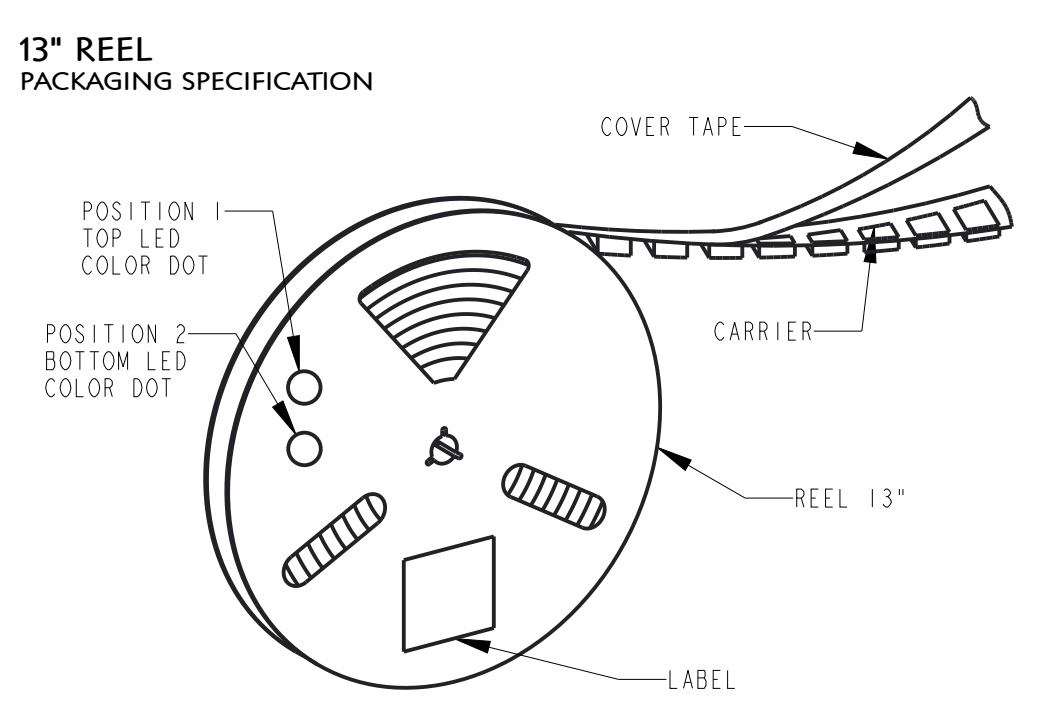


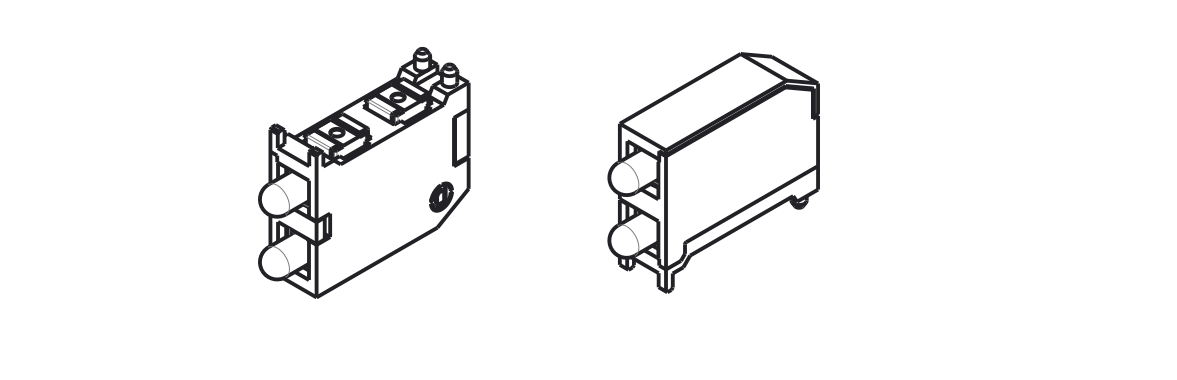
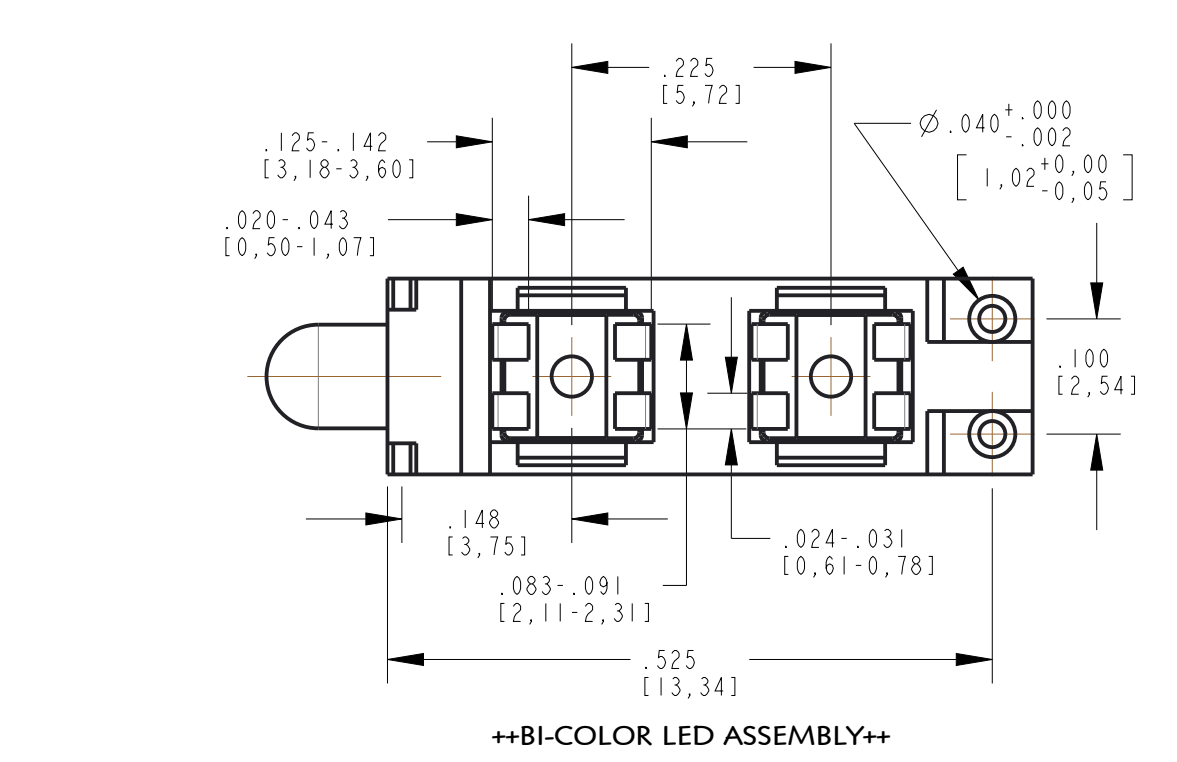
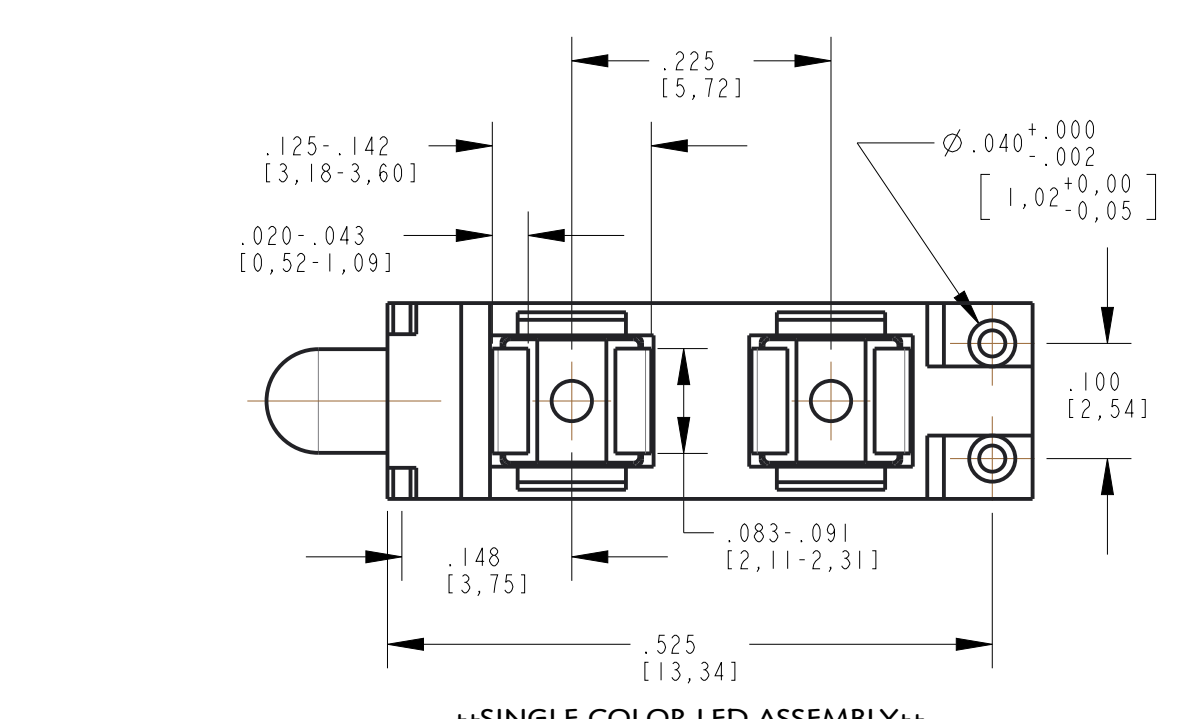
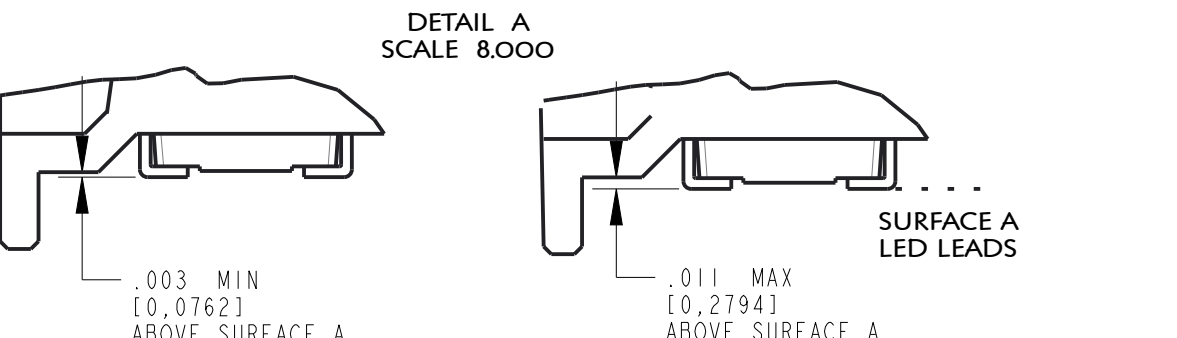
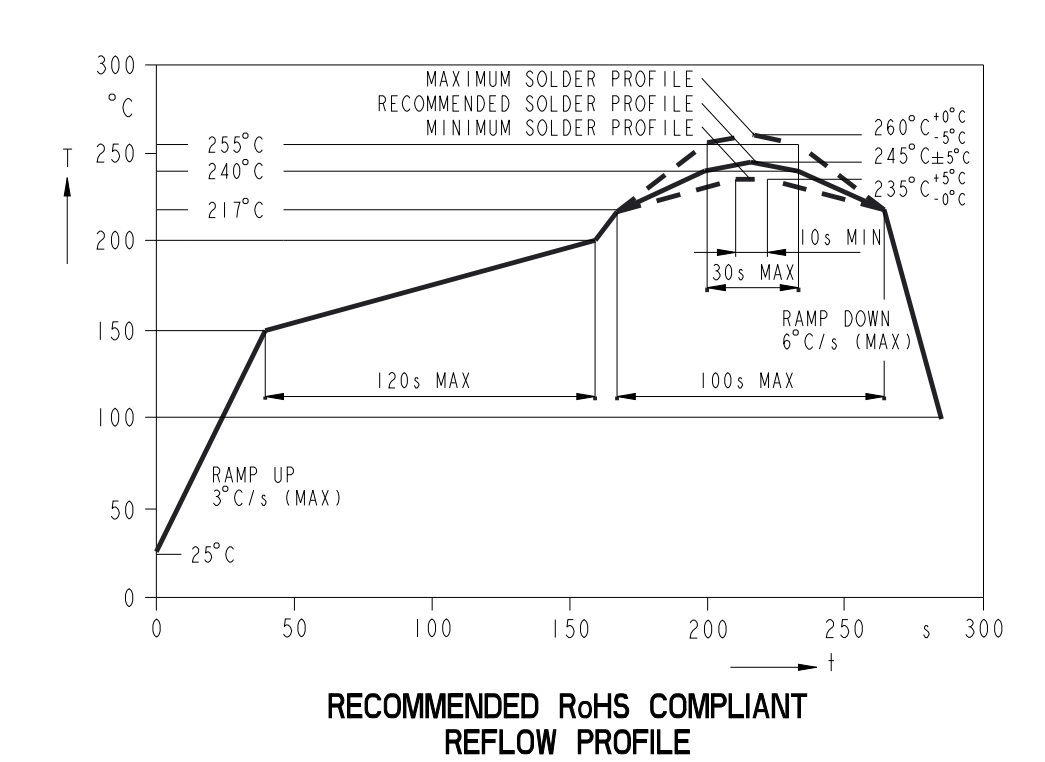
DIALIGHT PART NUMBER	PACKAGING	POSITION 1	POSITION 2
592-1010-313F	13" REEL	RED [2mA]	RED [2mA]
592-1313-313F	13" REEL	GREEN [2mA]	GREEN [2mA]
592-1314-313F	13" REEL	GREEN [2mA]	YELLOW [2mA]
592-1410-313F	13" REEL	YELLOW [2mA]	RED [2mA]
592-1414-313F	13" REEL	YELLOW [2mA]	YELLOW [2mA]
592-1515-313F	13" REEL	ORANGE [2mA]	ORANGE [2mA]
592-2126-413F	13" REEL	BLUE [2mA]	BLUE [2mA]
592-2326-413F	13" REEL	GREEN [2mA]	BLUE [2mA]
592-2436-313F	13" REEL	YELLOW [2mA]	ORANGE/GREEN [2mA]
592-2626-413F	13" REEL	BLUE [1InGaN]	BLUE [1InGaN]
592-2627-413F	13" REEL	BLUE [1InGaN]	YELLOW [2mA]
592-2628-413F	13" REEL	BLUE [1InGaN]	WHITE [2mA]
592-2631-413F	13" REEL	BLUE [1InGaN]	YELLOW/GREEN [2mA]
592-2727-313F	13" REEL	YELLOW [AlInGaN]	YELLOW [AlInGaN]
592-2729-313F	13" REEL	YELLOW [AlInGaN]	GREEN [1InGaN]
592-2826-413F	13" REEL	WHITE [1InGaN]	BLUE [1InGaN]
592-2828-413F	13" REEL	WHITE [1InGaN]	WHITE [2mA]
592-2927-313F	13" REEL	GREEN [1InGaN]	YELLOW [AlInGaN]
592-2929-313F	13" REEL	GREEN [1InGaN]	GREEN [1InGaN]
592-3030-313F	13" REEL	RED/GREEN [1InGaN]	RED/GREEN [2mA]
592-3031-313F	13" REEL	RED/GREEN [1InGaN]	YELLOW/GREEN [2mA]
592-3032-313F	13" REEL	RED/GREEN [1InGaN]	RED/YELLOW [2mA]
592-3034-313F	13" REEL	RED/GREEN [1InGaN]	RED/BLUE [2mA]
592-3036-313F	13" REEL	RED/GREEN [1InGaN]	ORANGE/GREEN [2mA]
592-3131-313F	13" REEL	YELLOW/GREEN [1InGaN]	YELLOW/GREEN [2mA]
592-3232-313F	13" REEL	RED/YELLOW [1InGaN]	RED/YELLOW [2mA]
592-3236-313F	13" REEL	RED/YELLOW [1InGaN]	ORANGE/GREEN [2mA]
592-3333-313F	13" REEL	YEL/GREEN [1InGaN]	YEL/GREEN [1InGaN]
592-3530-313F	13" REEL	RED/GRN/BLU [1InGaN]	RED/GRN/BLU [2mA]
592-3531-313F	13" REEL	RED/GRN/BLU [1InGaN]	YELLOW/GREEN [2mA]
592-3535-313F	13" REEL	RED/GRN/BLU [1InGaN]	RED/GRN/BLU [2mA]
592-3728-413F	13" REEL	RED/GRN/BLU [1InGaN]	WHITE [2mA]
592-4026-413F	13" REEL	TRUE GREEN [1InGaN]	BLUE [1InGaN]



**RoHS COMPLIANT 592-XXXX-3XXF/4XXF**  
 Part Numbers with the "F" suffix ending are RoHS Compliant.  
 Packaging is marked with "RoHS Compliant" label or equivalent markings. These parts can be used with RoHS reflow profile. Parts can be wave soldered, dip soldered or hand soldered using typical lead-free soldering process with max 260°C temp. for 5 sec.



- 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 LEADS AND "COUNTRY OF ORIGIN: MEXICO", CORNER OF LABEL ON REEL INDICATES MOISTURE SENSITIVITY LEVEL.
- ALUMINUM BARRIER BAG INCLUDES MSL LABEL.



- NOTES:
- DIALIGHT PART NUMBERS: 592-XXXX-3XXF/4XXF.
  - ...-313F/413F SUFFIX PARTS ARE SUPPLIED ON A 13 INCH REEL, 300 Pcs/REEL
  - FRONT AND REAR TERMINALS (OF EACH LED) OF THE ASSEMBLY TO BE WITHIN .005" COPLANARITY.
  - STORAGE CONDITIONS FOR TAPED PRODUCT: RE-TAPING MAY BE NECESSARY FOR PRODUCT STORED MORE THAN TWELVE MONTHS.
  - PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
  - MOISTURE SENSITIVITY LEVEL LABEL WILL BE PLACED ON BAG.
  - THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
  - FLAMMABILITY RATING HOUSING: UL-94-VO SILICONE LENS AND LED: UL-94HB

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)		REVERSE CURRENT (µA)	
	2mA	10mA	MIN	TYP	MAX	TYP	MAX	TYP	MAX	TYP	MAX
10 RED	3.8	9.8	624	630	636	643	1.8	2.2	10 @ V <sub>F</sub> =12 V	—	—
13 GREEN	3.2	10.1	566	570	575	572	1.8	2.2	10 @ V <sub>F</sub> =12 V	—	—
14 YELLOW	4.4	11.3	580	587	594	591	1.8	2.2	10 @ V <sub>F</sub> =12 V	—	—
15 ORANGE	5.6	14.0	600	606	609	610	1.8	2.2	10 @ V <sub>F</sub> =12 V	—	—

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)		REVERSE CURRENT (µA)	
	TYP	TEST CURRENT (mA)	MIN	TYP	MAX	TYP	MAX	TYP	MAX	TYP	MAX
21 RED [AlGaAs]	9	10	—	645	—	660	1.75	2.5	10 @ V <sub>F</sub> =12 V	—	—
23 GREEN	4	10	564	570	576	572	2.0	2.5	10 @ V <sub>F</sub> =12 V	—	—
24 YELLOW	2	10	580	587	595	586	2.0	2.5	10 @ V <sub>F</sub> =5 V	—	—
25 ORANGE	2	10	600	606	609	610	2.0	2.5	10 @ V <sub>F</sub> =5 V	—	—
26 BLUE [InGaN]	88	10	465	470	475	—	2.8	3.5	10 @ V <sub>F</sub> =5 V	—	—
27 YELLOW [AlInGaN]	60	20	580	587	595	591	2.0	2.4	10 @ V <sub>F</sub> =12 V	—	—
28 WHITE	50	10	X: .281 Y: .247	—	—	—	2.7	3.1	10 @ V <sub>F</sub> =5 V	—	—
29 GREEN [InGaN]	56	20	—	525	—	523	3.7	4.3	10 @ V <sub>F</sub> =12 V	—	—

COLOR	LUMINOUS INTENSITY (mcd)			FORWARD VOLTAGE (V)			REVERSE CURRENT (µA)			DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		
	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX
RED/GRN	—	11	—	1.8	2.2	0.01	10	624	630	636	643	—	—	—	—
RED/GRN	—	5	—	1.8	2.2	0.01	10	566	570	575	572	—	—	—	—
YELW/GRN	—	14	—	1.8	2.2	0.01	10	580	587	595	591	—	—	—	—
YELW/GRN	—	5	—	1.8	2.2	0.01	10	566	570	575	572	—	—	—	—

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)	
	TYP	TEST CURRENT (mA)	MIN	TYP	MAX	TYP	MAX	TYP	MAX
RED	21	20	627	633	639	645	2.0	2.3	—
YELLOW	34	20	580	587	595	591	2.0	2.4	—

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)	
	TYP	TEST CURRENT (mA)	MIN	TYP	MAX	TYP	MAX	TYP	MAX
YELLOW	145	20	585	—	595	—	1.8	2.4	—
GREEN	245	20	515	—	525	—	2.8	3.4	—

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)	
	TYP	TEST CURRENT (mA)	MIN	TYP	MAX	TYP	MAX	TYP	MAX
RED	21	10	620	625	630	—	1.9	2.2	—
BLUE	24	10	465	467	470	—	3.0	3.2	—

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)	
	TYP	TEST CURRENT (mA)	MIN	TYP	MAX	TYP	MAX	TYP	MAX
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	—

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)	
	TYP	TEST CURRENT (mA)	MIN	TYP	MAX	TYP	MAX	TYP	MAX
ORANGE	3	10	600	606	612	610	2.0	2.5	—
GREEN	4	10	564	570	576	572	2.0	2.5	—

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)	
	TYP	TEST CURRENT (mA)	MIN	TYP	MAX	TYP	MAX	TYP	MAX
RED	52	10	615	—	630	—	1.8	2.4	—
GREEN	210	10	518	—	530	—	2.8	3.6	—
BLUE	34	10	465	—	475	—	2.8	3.6	—

COLOR	LUMINOUS INTENSITY (mcd)		DOMINANT WAVELENGTH (nm)			PEAK WAVELENGTH (nm)		FORWARD VOLTAGE (V)	
	TYP	TEST CURRENT (mA)	MIN	TYP	MAX	TYP	MAX	TYP	MAX
GREEN	192	10	520	525	530	—	2.8	3.5	—

COLOR	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

COLOR	COLOR											UNITS
	RED [AlGaAs]	RED [AlGaAs]	GREEN [InGaN]	GREEN [InGaN]	YELLOW [AlInGaN]	YELLOW [AlInGaN]	ORANGE	WHITE	BLUE [InGaN]	GREEN [InGaN]	GREEN [InGaN]	
POWER DISSIPATION	95	90	95	95	95	80	91	100	114	—	—	mW
PEAK FORWARD CURRENT (1/200 DUTY CYCLE, 10µs PULSE WIDTH)	500	500	500	500	500	200	500	100	200	—	—	mA
CONTINUOUS FORWARD CURRENT	30	30	30	30	30	30	30	30	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	0.67 (FROM 85°C)	0.55 (FROM 40°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

COLOR	RED/GRN		YLW/GRN		UNITS
	RED/GRN	YLW/GRN	RED/GRN	YLW/GRN	
CONTINUOUS FORWARD CURRENT	—	—	15	—	mA
REVERSE VOLTAGE	—	—	12	—	V
SURGE CURRENT	—	—	100	—	mA
PEAK SOLDERING TEMPERATURE	—	—	245	—	°C
OPERATING TEMPERATURE	—	—	-40 TO +100	—	°C
STORAGE TEMPERATURE	—	—	-40 TO +100	—	°C

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

COLOR	YELLOW		GREEN		UNITS
	YELLOW	GREEN	YELLOW	GREEN	
POWER DISSIPATION	—	—	72	102	mW
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 10ms PULSE WIDTH)	—	—	125	—	mA
CONTINUOUS FORWARD CURRENT	—	—	20	—	mA
LEAD REFLOW SOLDERING TEMPERATURE (FOR 5 SEC.)	—	—	260	—	°C
OPERATING TEMPERATURE	—	—	-20 TO +80	—	°C
STORAGE TEMPERATURE	—	—	-40 TO +80	—	°C

COLOR	RED		BLUE		UNITS
	RED	BLUE	RED	BLUE	
PEAK FORWARD CURRENT (1/10 DUTY CYCLE, 10ms PULSE WIDTH)	—	—	100	—	mA
CONTINUOUS FORWARD CURRENT	—	—	30	—	mA
LINEAR DERATING FROM 80°C	—	—	1.0	—	mA/°C
LEAD REFLOW SOLDERING TEMPERATURE (FOR 5 SEC.)	—	—	260		