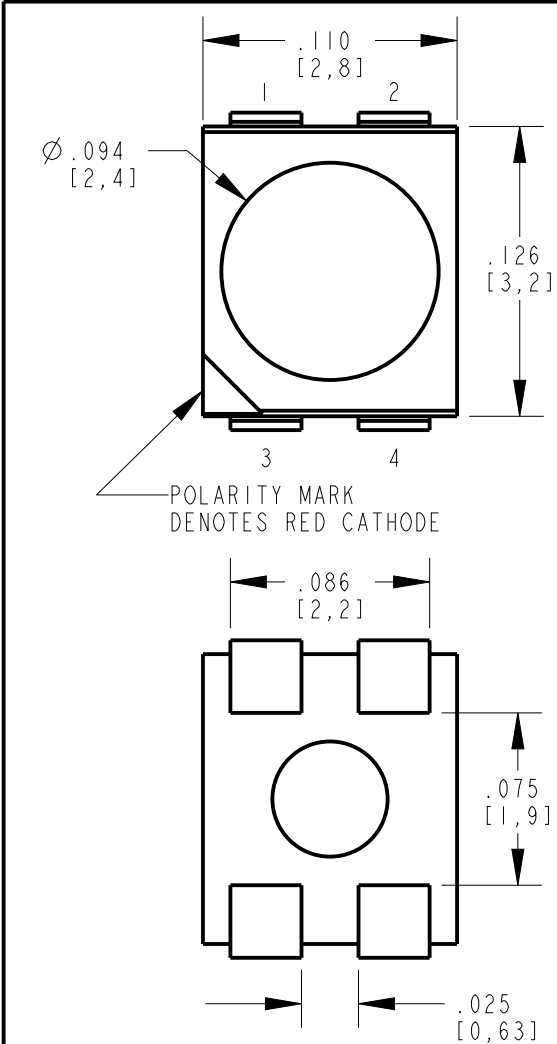
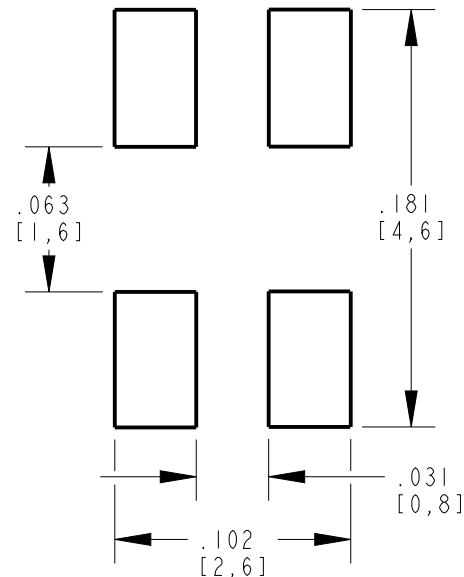
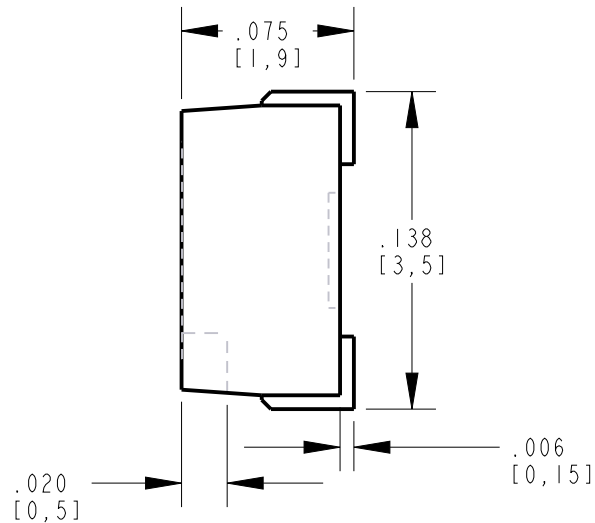




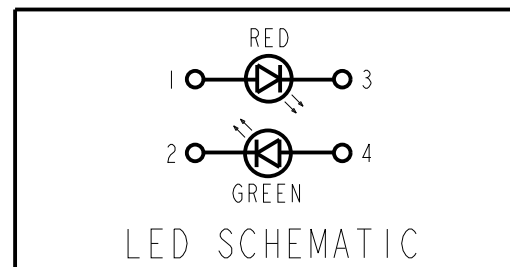
ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

RoHS COMPLIANT 597-7752-00XF

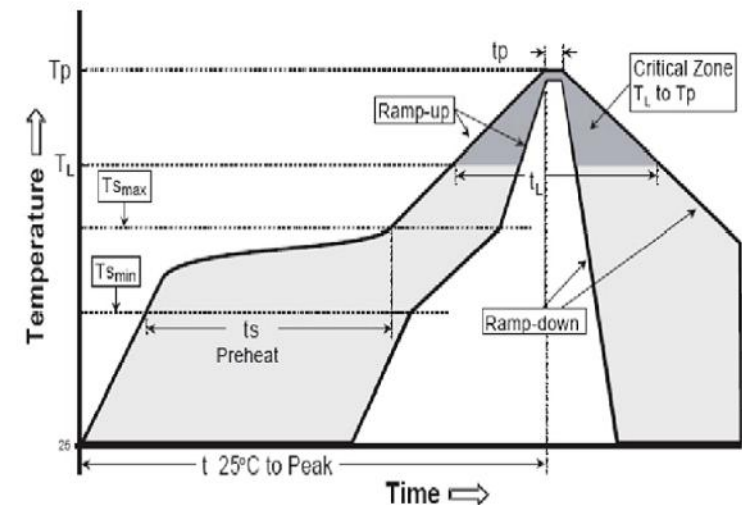
Part Numbers with the "F" suffix ending are RoHS Compliant.
For example: 597-7752-002F
Reel and bag packaging are marked with "RoHS Compliant"
label or equivalent markings. These parts can be used with
RoHS reflow profile. Parts can be wave soldered, dip soldered
or hand soldered using typical lead-free soldering process
with max 260°C temp. for 5 sec.



RECOMMENDED SOLDER PAD LAYOUT
(TOLERANCE: $\pm .004$)



REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	—	NEW RELEASE	AJF	KLJ	NO	4-26-10
B	—	UPDATED LED SPECS AND REFLOW PROFILE	BP	—	NO	12-13-17
c	115250	UPDATED LED SPECS	LD		CS	2-26-24

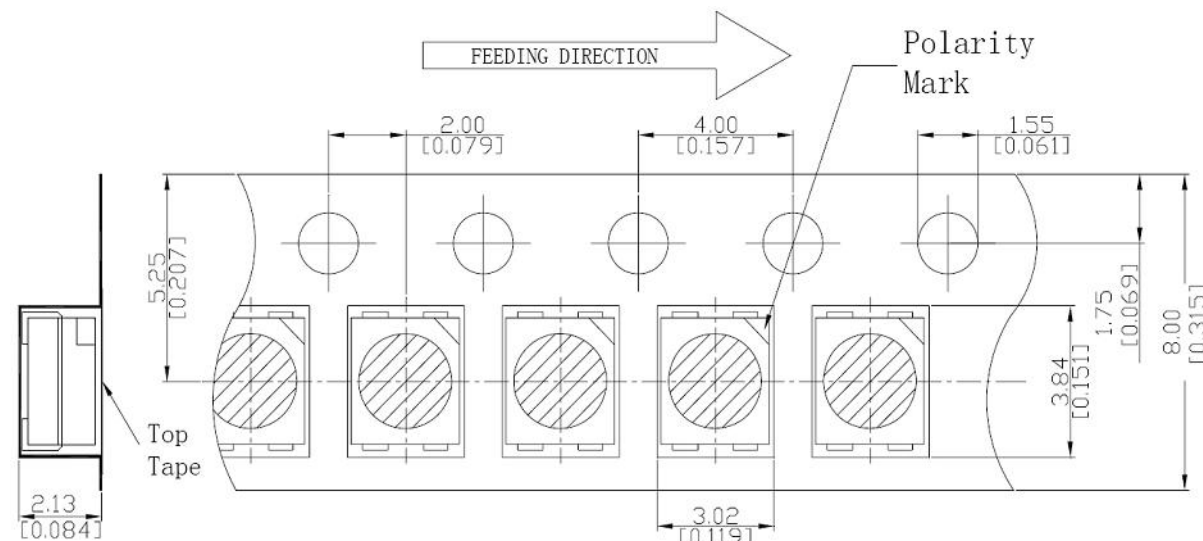


ABSOLUTE MAXIMUM RATINGS AT TA=25°C	COLOR		UNITS
	RED	GREEN	
POWER DISSIPATION	72	108	mW
FORWARD CURRENT	30		mA
PULSE FORWARD CURRENT	100		mA
REVERSE VOLTAGE	5		V
DERATE LINEARLY FROM 80°C	0.5		mA/°C
OPERATING TEMPERATURE	-40 TO +85		°C
STORAGE TEMPERATURE	-40 TO +100		°C
HAND SOLDERING TEMPERATURE, 5 SEC.	260		°C

OPERATING CHARACTERISTICS AT 25°C AMBIENT						
CHARACTERISTICS	COLOR	MIN	TYP	MAX	UNITS	TEST CONDITIONS
LUMINOUS INTENSITY	RED	200	—	800	mcd	If = 20 mA
	GREEN	430	—	1800		
FORWARD VOLTAGE	RED	1.8	—	2.4	V	If = 20 mA
	GREEN	2.8	—	3.6		
DOMINANT WAVELENGTH	RED	620	—	630	nm	If = 20 mA
	GREEN	515	—	530		
REVERSE CURRENT	ALL	—	—	10	μA	VR = 5 V
VIEWING ANGLE	ALL	—	120	—	Degree	If = 20 mA

TOLERANCES: LUMINOUS INTENSITY IS $\pm 10\%$, DOMINANT WAVELENGTH IS $\pm 2\text{nm}$,
FORWARD VOLTAGE IS $\pm 0.05\text{V}$.

PACKAGE DIMENSIONS OF TAPE AND REEL



NOTE: TAPE AND REEL PACKAGING DIMENSIONS ARE IN MILLIMETERS (INCHES).

NOTES:

- LED CHIPS: AlInGaP RED, InGaN GREEN.
- DIALIGHT PART NUMBERS: 597-7752-002F, 597-7752-007F
- PACKAGING:
SUFFIX -002F: 20 PCS SAMPLE STRIP
SUFFIX -007F: 2000 PARTS/REEL ON $\varnothing 7"$ REEL.
- REEL AND PACKAGING HAS A LABEL WITH DIALIGHT LOGO, DIALIGHT P/N, QTY PER REEL, DATE CODE, LOT NUMBER, INTENSITY BIN CODE, COLOR BIN, AND COUNTRY OF ORIGIN.
- THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING, AND STORAGE IN ACCORDANCE WITH IPC-A-610.
- MOISTURE SENSITIVITY LEVEL 3.
- TAPE AND REEL LEDS MAY REQUIRE RE-TAPING AFTER TWELVE MONTHS.

MARK	CONDITIONS
$T_{s_{max}}$ TO T_p	3 °C/sec
$T_{s_{min}}$	150 °C
$T_{s_{max}}$	200 °C
$T_{s_{min}}$ TO $T_{s_{max}}$	60-120 sec
T_L	217 °C
t_L	60 sec.
T_P	260 °C (MAX)
25 °C TO T_P	8 MIN MAX
HOLD TIME WITHIN 5°C LOWER THAN T_P	30 sec Max
RAMP DOWN	6 °C/sec

RECOMMENDED RoHS SOLDER PROFILE

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SCALE: 12.000	DRAWING NUMBER	REV
ALL DIM's: INCH (mm)	C-17793	C
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: $\pm 1/64$ DECIMALS (.XX): $\pm .01$ DECIMALS (.XXX): $\pm .008$	SMT PLCC-4 R/G BI-COLOR LED	
ANGLES: $\pm 1^\circ$	MATERIAL	
FINISH	-	
FSCM 83330	Dialight	
	1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com	
	SHEET 1 OF 1	FAMILY TABLE: