

DIALIGHT PART NO	LED COLOR (nm)
598-8D10-102F,107F	RED (630)
598-8D20-102F,107F	RED ORANGE (625)
598-8D30-102F,107F	ORANGE (605)
598-8D40-102F,107F	YELLOW (590)
598-8D60-102F,107F	YELLOW GREEN (570)
598-8D80-102F,107F	GREEN (525)
598-8D90-102F,107F	BLUE (470)

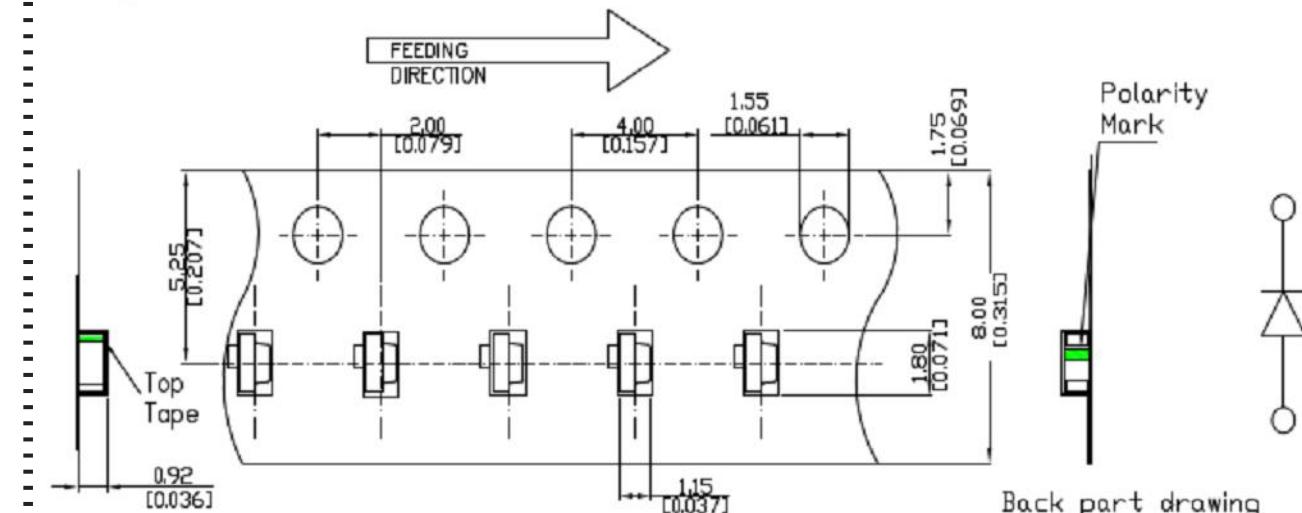


ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

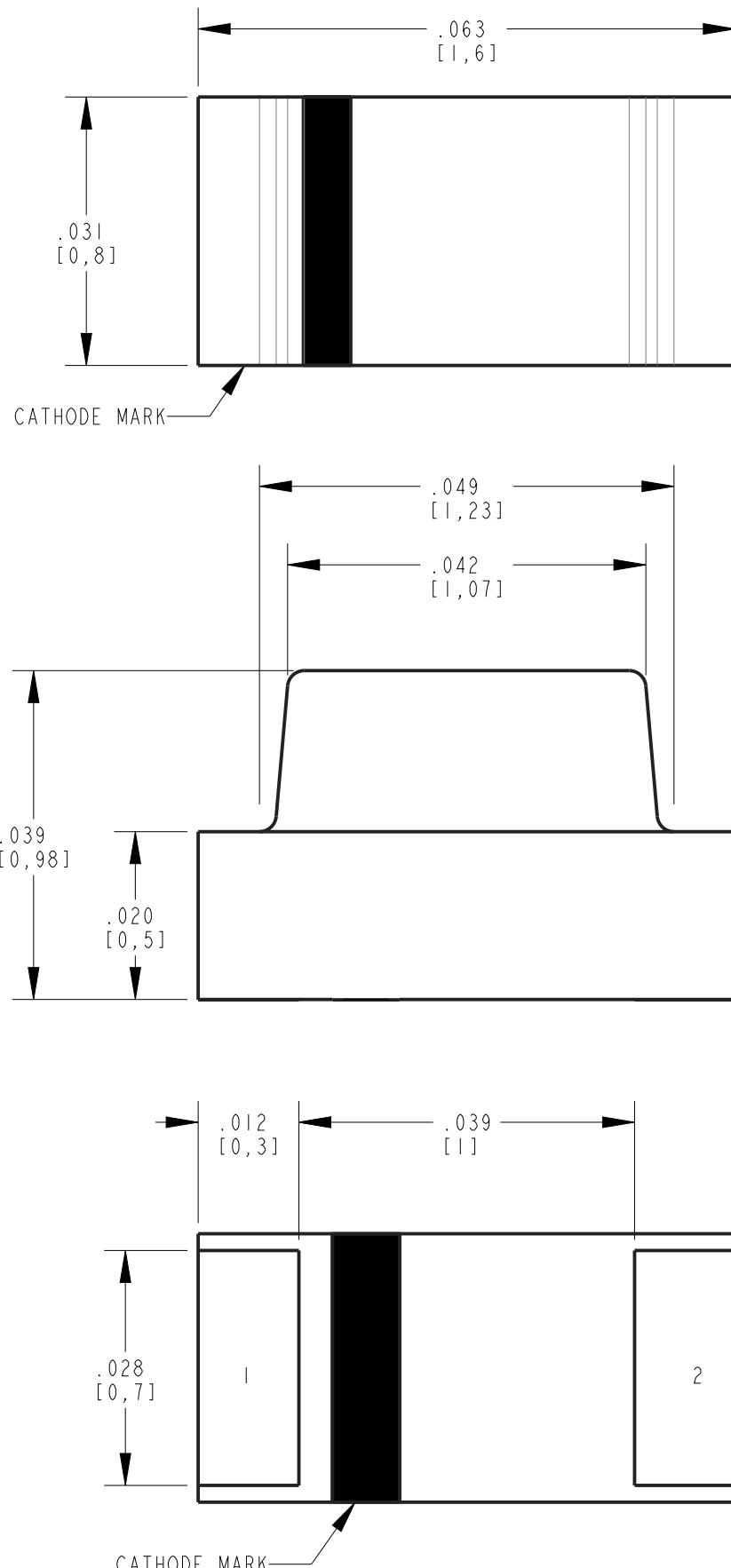
TAPING SPECIFICATIONS

UNITS: mm
TOLERANCE (UNLESS OTHERWISE SPECIFIED): $\pm 0.2\text{mm}$

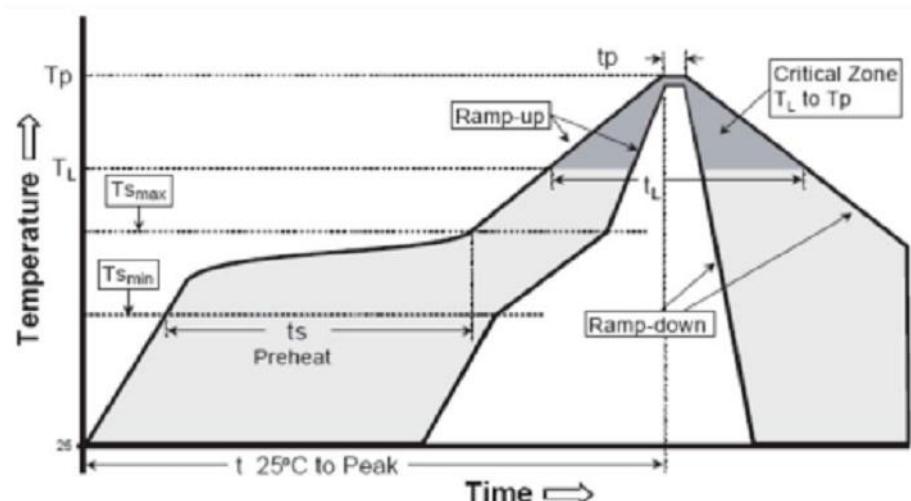
■ Tape Dimensions



REV	REVISIONS	DRN	APP	DATE
A	NEW RELEASE	LD	NO	9-24-19
B	CHANGED THE FOLLOWING DIMs: .049 WAS 1.10 & .042 WAS 1.00, ADDED TOP VIEW CATHODE MARK	LD	NO	11-17-19
C	CHANGED THE WAVELENGTH OF 598-8D20-102F,107F FROM 615nm TO 625nm	LD	NO	2-12-21
D	REVISED PAD LAYOUT	LD	CS	5-24-23



RECOMMENDED RoHS SOLDER PROFILE



ELECTRICAL OPTICAL CHARACTERISTICS AT 25°C											
LED COLOR	TEST CONDITION	LUMINOUS INTENSITY (mcd)			DOMINANT WAVELENGTH (nm)		REVERSE CURRENT (uA)	SPECTRAL LINE HALF-WIDTH (nm)	FORWARD VOLTAGE $I_F=5\text{mA}$	VIEWING ANGLE $I_F=20\text{mA}$	THERMAL RESISTANCE $I_F=20\text{mA}$ ($^\circ\text{C}/\text{W}$)
		I_F (mA)	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	TYP.	MAX.	
RED	20	30	—	90	630	635	640	10	1.8	2.4	450
		150	240	330	620	625	630		1.8	2.4	
		90	145	200	600	605	610		1.8	2.4	
		120	160	200	585	590	595		1.8	2.4	
		28	54	80	565	570	575		1.8	2.4	
		70	135	200	510	525	535		2.8	3.5	
		350	440	530	460	468	475		2.8	3.5	

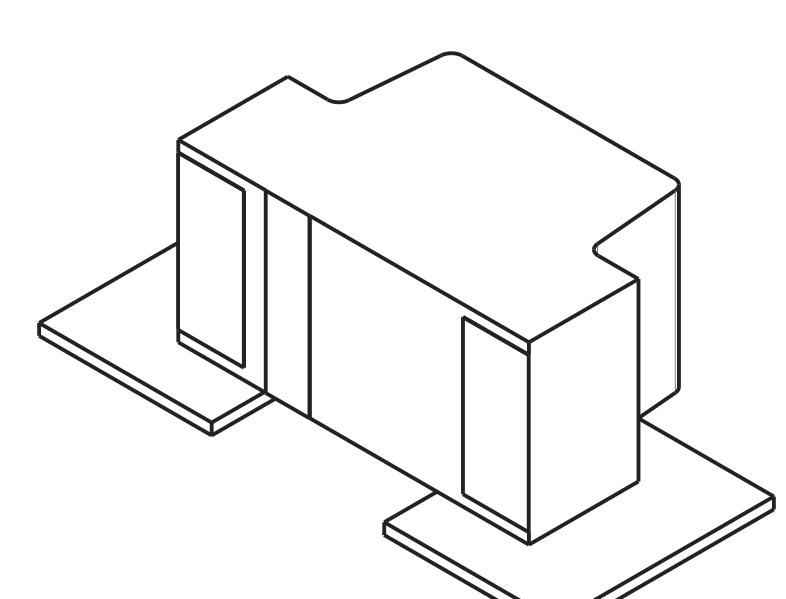
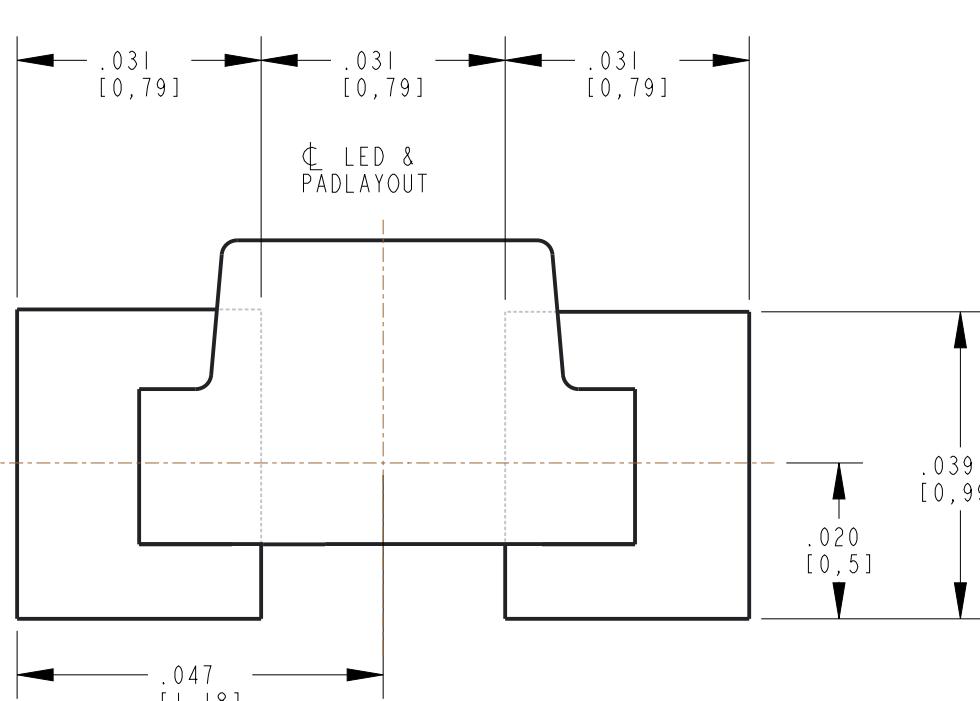
ABSOLUTE MAXIMUM RATINGS AT 25°C							
LED COLOR	POWER DISSIPATION (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	ELECTROSTATIC DISCHARGE (V)	OPERATING TEMPERATURE (°C)	STORAGE TEMPERATURE (°C)	SOLDERING CONDITION (°C)
RED				2000			
RED ORANGE			30				
ORANGE				60			
YELLOW					-40 to +85	-40 to +100	260
YELLOW GREEN					1000		95
GREEN	105		20				
BLUE	70						

MARK	DEFINITION	CONDITION
T_{smax}	Maximum of pre-heating temperature	200 °C
T_{smin}	Minimum of pre-heating temperature	150 °C
T_s	Time from T_{smin} to T_{smax}	60-120 sec
T_L	Reference temperature	217 °C
t_L	Retention time for T_L	within 60s
T_p	Peak Temperature	260 °C
t_p	Time for peak temperature	within 10s
DT_r/DT	Temperature rising rate	under 6° C/sec
DT_d/DT	Temperature decreasing rate	under -3° C/sec



LED SCHEMATIC

RECOMMENDED PAD LAYOUT



NOTES:

1. QUANTITY IS 4,000 PCS PER REEL.
2. PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON-EXISTENT ON PART.
3. THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE SENSITIVE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610.
4. THIS PRODUCT IS RoHS COMPLIANT. EACH BAG IS TO BE MARKED WITH RoHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE.

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DIALIGHT CORP INTERNAL REFERENCE ONLY - 3D MODEL : 4500521848X15-A-1
SCALE: 35.00
ALL DIM'S IN: INCHES (MM)
TOLERANCES: UNLESS OTHERWISE SPECIFIED
FRACTIONS: $\pm 1/64$
DECIMALS (.XX): $\pm .01$
DECIMALS (.XXX): $\pm .005$
DECIMALS (.XXXX): $\pm .0005$
ANGLES: $\pm 1^\circ$
FINISH
DRAWING NUMBER
REV
C18447
D
TITLE
0603 RT ANGLE
MATERIAL
FSCM 83330
Sheet 1 of 1 Family Table
Dialight
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