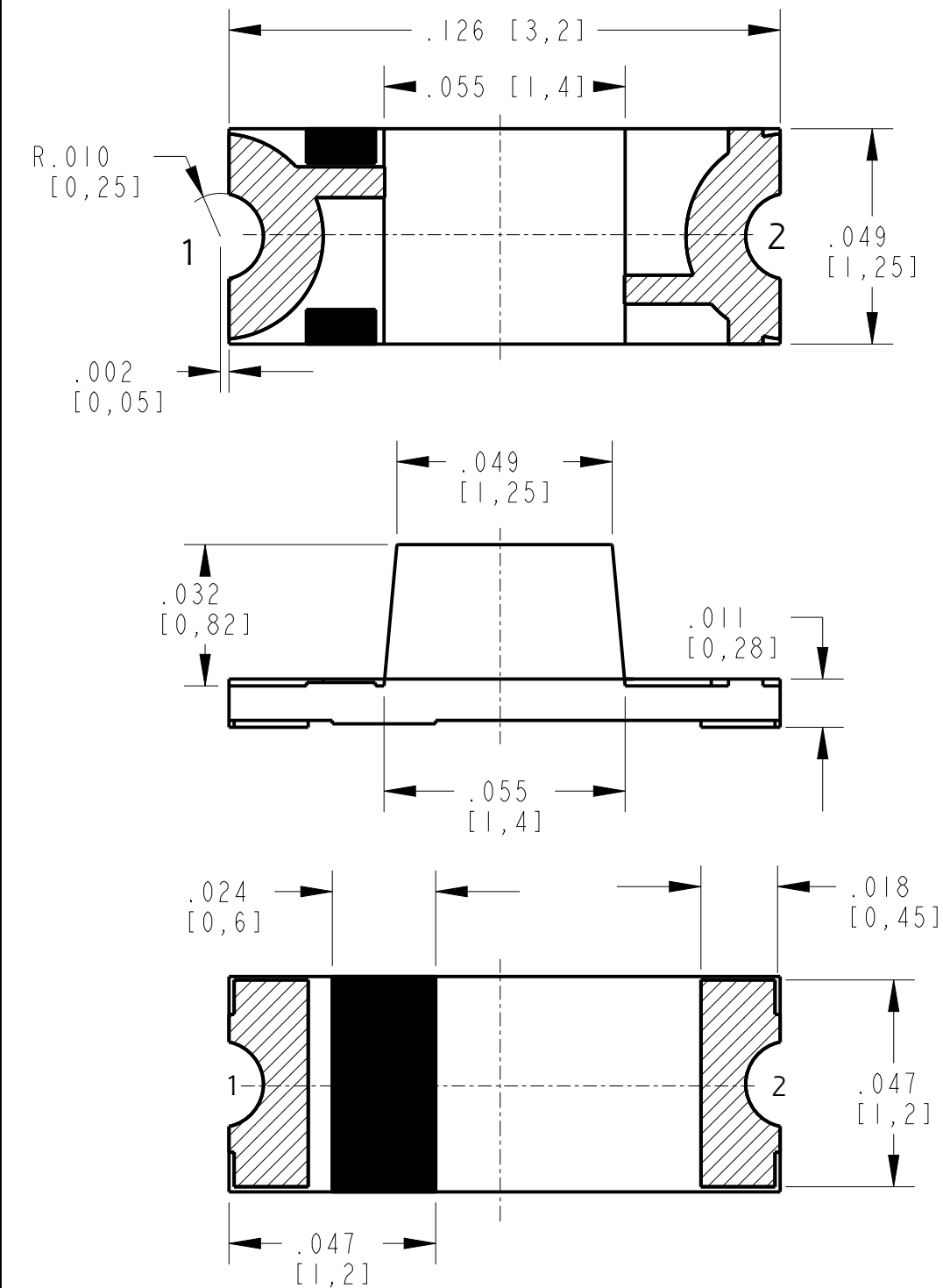


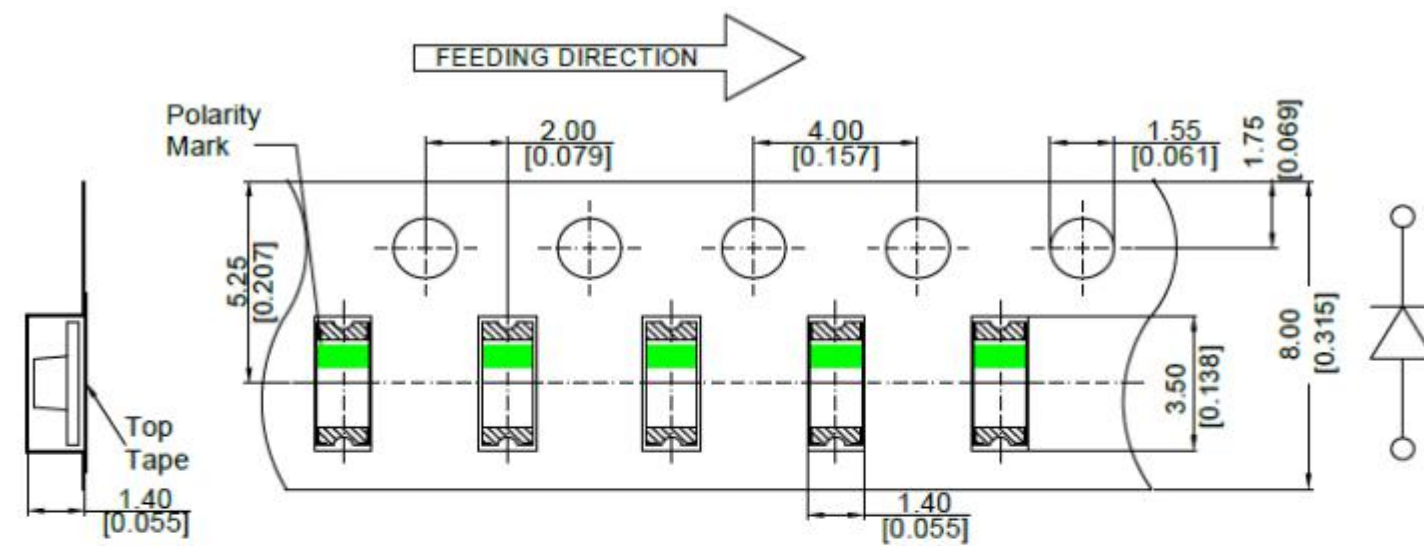
DIALIGHT PART NO.	LED COLOR TYP (nm)	LENS COLOR
599-0K10-107F	RED(632)	WATER CLEAR
599-0K20-107F	RED-ORANGE(625)	
599-0K40-107F	YELLOW(590)	
599-0K60-107F	YELLOW-GREEN(570)	
599-0K80-107F	TRUE GREEN(523)	
599-0K90-107F	BLUE(465)	

- NOTES:
- PARTS ARE TO BE SUPPLIED IN 8mm CARRIER TAPE ON 7" REEL 3000 PCS PER REEL.
 - PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON EXISTENT ON PART
 - THIS ASSEMBLY CONTAINS ELECTROSTATIC DISCHARGE DEVICES (ESDS). MAINTAIN ALL PRECAUTIONARY MEASURES DURING ASSEMBLY, HANDLING AND STORAGE IN ACCORDANCE WITH IPC-A-610
 - THIS PRODUCT IS ROHS COMPLIANT EACH BAG IS TO BE MARKED WITH ROHS COMPLIANT LABEL OR EQUIVALENT MARKINGS. LED MUST BE Pb FREE.
 - MOISTURE SENSITIVITY LEVEL IS 3

REV	ECN NO	REVISIONS	DRN	CKD	APP	DATE
A	116322	NEW RELEASE	JSG	CS	NO	25MAR24



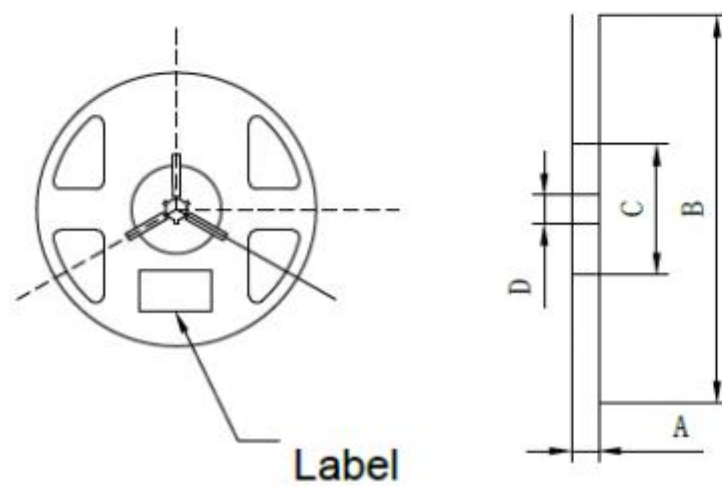
Carrier Tape Dimension



TAPING SPECIFICATIONS

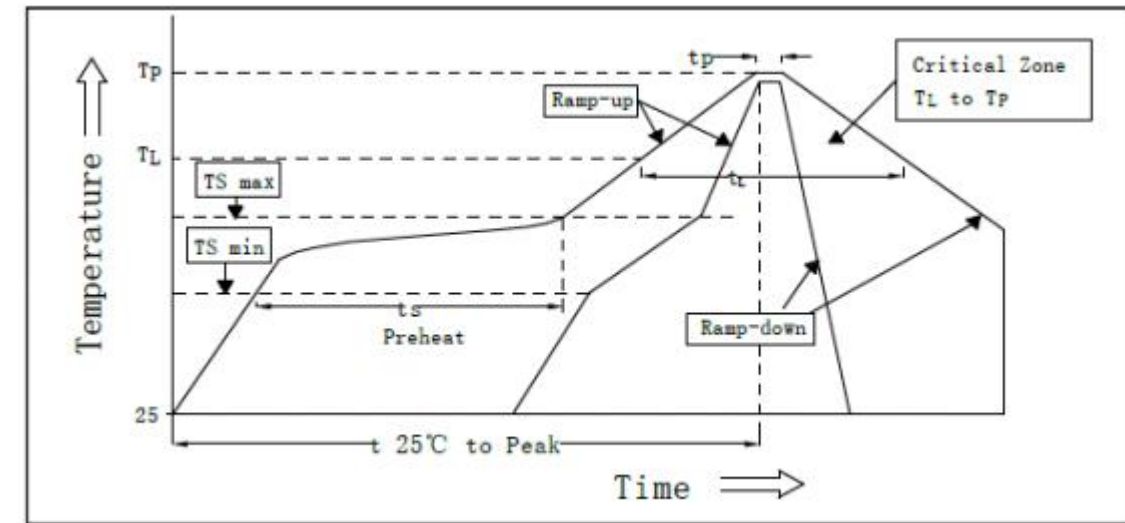
TOLERANCE (UNLESS OTHERWISE SPECIFIED): $\pm 0.003 (\pm 0.1 \text{ mm})$

Reel Dimension



A	8.0±0.1mm
B	178±1mm
C	60±1mm
D	13.0±0.5mm

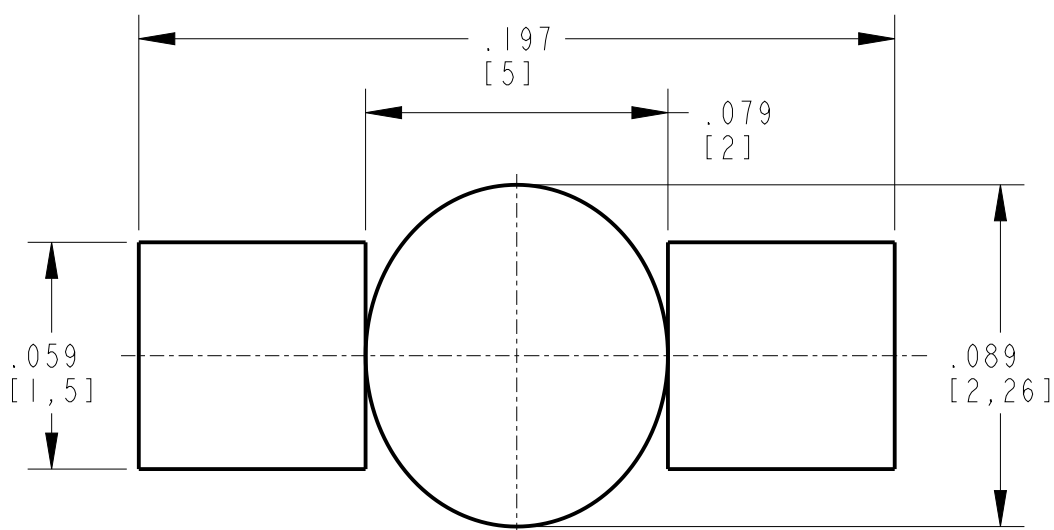
RECOMMENDED RoHS SOLDER PROFILE



MARK	DEFINITION	CONDITION
$T_{S_{max}}$	MAXIMUM OF PRE-HEATING TEMPERATURE	200°C
$T_{S_{min}}$	MINIMUM OF PRE-HEATING TEMPERATURE	150°C
T_s	TIME FORM T_{Smin} To T_{Smax}	60s-120s
T_L	REFERENCE TEMPERATURE	217°C
t_L	RETENTION TIME FOR T_L	60s-150s
T_P	PEAK TEMPERATURE	260°C
t_P	TIME FOR PEAK TEMPERATURE	WITHIN 10s
DTr/Dt	TEMPERATURE RISING RATE	WITHIN 3°C/sec
DTd/Dt	TEMPERATURE DECREASING RATE	WITHIN 6°C/sec



LED SCHEMATIC



RECOMMENDED SOLDER PAD LAYOUT

ABSOLUTE MAXIMUM RATINGS AT 25°C							
LED COLOR	POWER DISSIPATON (mW)	FORWARD CURRENT (mA)	PEAK FORWARD CURRENT (mA)	OPERATING TEMPRATURE (°C)	STORAGE TEMPRATURE (°C)	DERATING CURVE (mA/°C)	ELECTROSTATIC DISCHARGE (V)
RED	72	30	60 1/10 DUTY CYCLE, 0.1ms PULSE WIDTH	-40°C TO +85°C	-40°C TO +85°C	0.417	2000
RED-ORANGE	69	30				0.417	2000
YELLOW	84	30				0.417	2000
YELLOW-GREEN	72	30				0.417	2000
TRUE GREEN	105	30				0.417	1000
BLUE	102	30				0.417	1000

OPERATING CHARACTERISTICS AT 25°C AMBIENT										
LED COLOR	TEST CONDITION (mA)	LUMINOUS INTENSITY (mcd)		FORWARD VOLTAGE (V)		DOMINANT WAVELENGTH (nm)		REVERSE CURRENT (uA)	VIEWING ANGLE (DEGREES)	THERMAL RESISTANCE °C/W
	TYP	MIN	MAX	MIN	MAX	MIN	MAX	MAX	TYP	MAX
RED	20mA	40	200	1.8	2.4	625	640	10µA @ VR=5V	140	450
RED-ORANGE	20mA	100	250	1.8	2.3	620	630			450
YELLOW	20mA	50	200	1.8	2.8	585	595			450
YELLOW-GREEN	20mA	18	65	1.8	2.4	565	575			450
TRUE GREEN	20mA	430	900	2.8	3.5	517	530			450
BLUE	20mA	80	230	2.8	3.4	460	470			450



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

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DIALIGHT CORP. INTERNAL REFERENCE ONLY - 3D MODEL: 4500521862823.PADLAYOUT-A-3			
SCALE: 20.000	DRAWING NUMBER	REV	
ALL DIM'S IN: INCHES (MM)	C-18743	A	
TOLERANCES: UNLESS OTHERWISE SPECIFIED			
FRACTIONS: ±1/64			TITLE
DECIMALS (.XX): ±.01			REVERSE MOUNT SMD
DECIMALS (.XXX): ±.005			LED 3.2X1.25X1.1mm
DECIMALS (.XXXX): ±.0005			MATERIAL
ANGLES: ±1°			
FINISH			
-			
FSCM 83330			
SHEET 1 OF 1			FAMILY TABLE:

Dialight

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www.dialight.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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