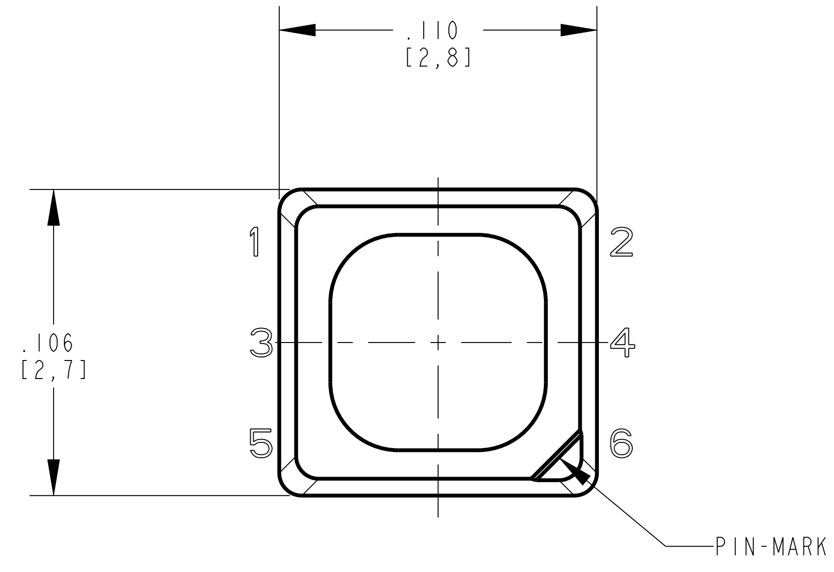
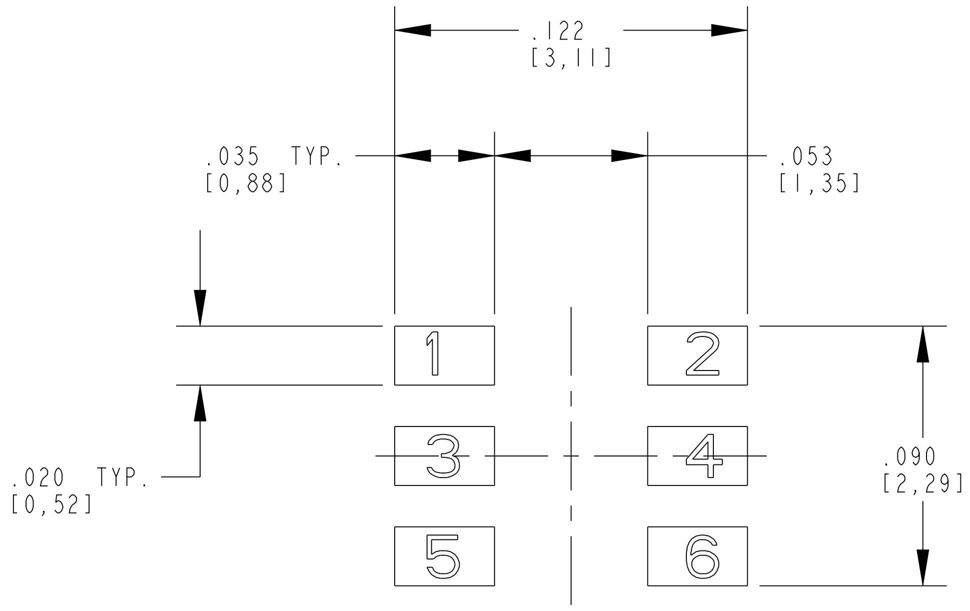
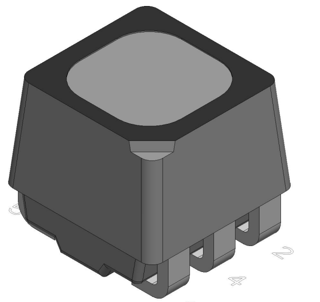
REV	REVISIONS	DRN	APP	DATE
A	NEW RELEASE	JGL	NO	8/06/2020

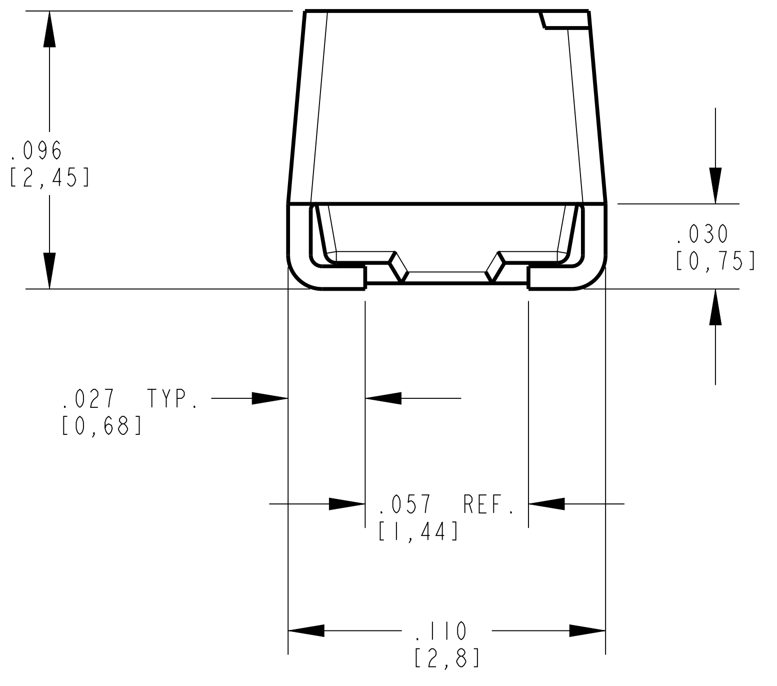


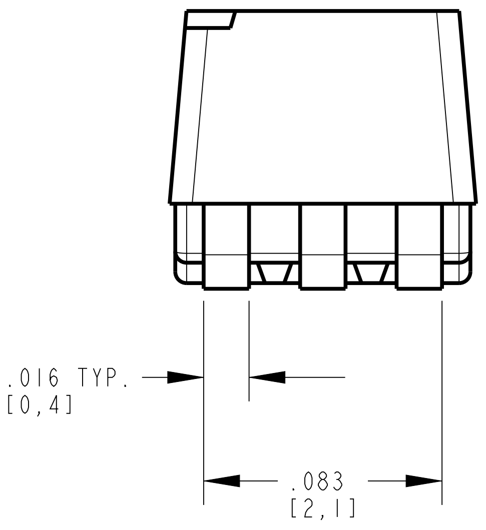


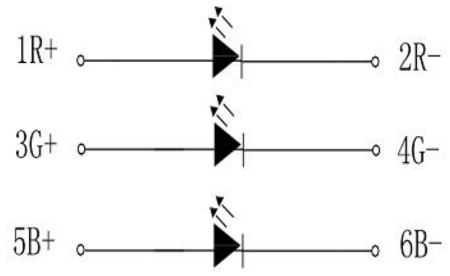
SOLDER PAD LAYOUT



SCALE 10.000







LED SCHEMATIC

NOTES:

1. PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON EXISTENT ON PART
2. LABELING FOR REEL AND OUTSIDE OF ALUMINUM BAG, DIALIGHT P/N QUANTITY PER REEL, DATE CODE ,INTENSITY BIN CODE, LOT NUMBER AND COUNTRY OF ORIGIN.
3. STORAGE CONDITIONS FOR TAPED PRODUCTS: RE-TAPING MAY BE NECESSARY FOR PRODUCTS STORED MORE THAN 12 MONTHS.
4. DRY PACK PACKAGING CONSIST OF A DESICCANT, HUMIDITY INDICATOR CARD IN A VACUUM SEALED MOISTER BARRIERBAG, MOISTER SENSITIVITY LABEL LEVEL 5A ON OUTSIDE BAG.
5. QUATITY: 3,000 PIECES PER REEL/BAG.
6. HBM CLASS 1B
7. OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.
8. PART No: 598-8G10-313F

ELECTRICAL & OPTICAL CHARACTERISTICS (Ts=25°C)

ITEM	SYMBOL	CONDITION	R	G	B	UNITS
REVERSE CURRENT	I_R	V_R=5V	6	6	6	µA
FORWARD VOLTAGE	$V_{F(min)}$	I_F=20mA	1.7	2.7	2.7	V
	$V_{F(avg)}$					V
	$V_{F(max)}$		2.4	3.4	3.4	V
DOMINANT WAVELENGTH	λ_D	I_F=20mA	618~628	518~530	464~474	nm
SPECTRUM RADIATION BANDWIDTH	$\Delta\lambda$	I_F=20mA	24	38	30	nm
LUMINOUS INTENSITY	$I_{V(min)}$	I_F=20mA	520	1200	250	mcd
	$I_{V(avg)}$		680	1500	380	mcd
VIEWING ANGLE	$2\theta 1/2$	I_F=20mA	110			deg

MAXIMUM RATINGS (Ts=25°C)

ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING			UNITS
		R	G	B	
FORWARD CURRENT	I_F	25	20	20	mA
PULSE FORWARD CURRENT	I_{FP}	80	80	80	mA
REVERSE VOLTAGE	V_R	5	5	5	V
OPERATING TEMPERATURE	T_{OPR}	-30~+85			°C
STORAGE TEMPERATURE	T_{STG}	-40~+100			°C
POWER DISSIPATION	P_D	60	68	68	mW
ELECTROSTATIC DISCHARGE(HBM)	ESD	1000V			

ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

DIALIGHT CORP INTERNAL REFERENCE ONLY = 3D MODEL : 4500521857323-A.3

SCALE: 15.000
ALL DIM'S IN: INCHES (MM)

TOLERANCES:
UNLESS OTHERWISE SPECIFIED
FRACTIONS: ±1/64
DECIMALS (.XX): ±.01
DECIMALS (.XXX): ±.005
DECIMALS (.XXXX): ±.0005
ANGLES: ±1°

FINISH

FSCM 83330

DRAWING NUMBER
C-18481

REV
A

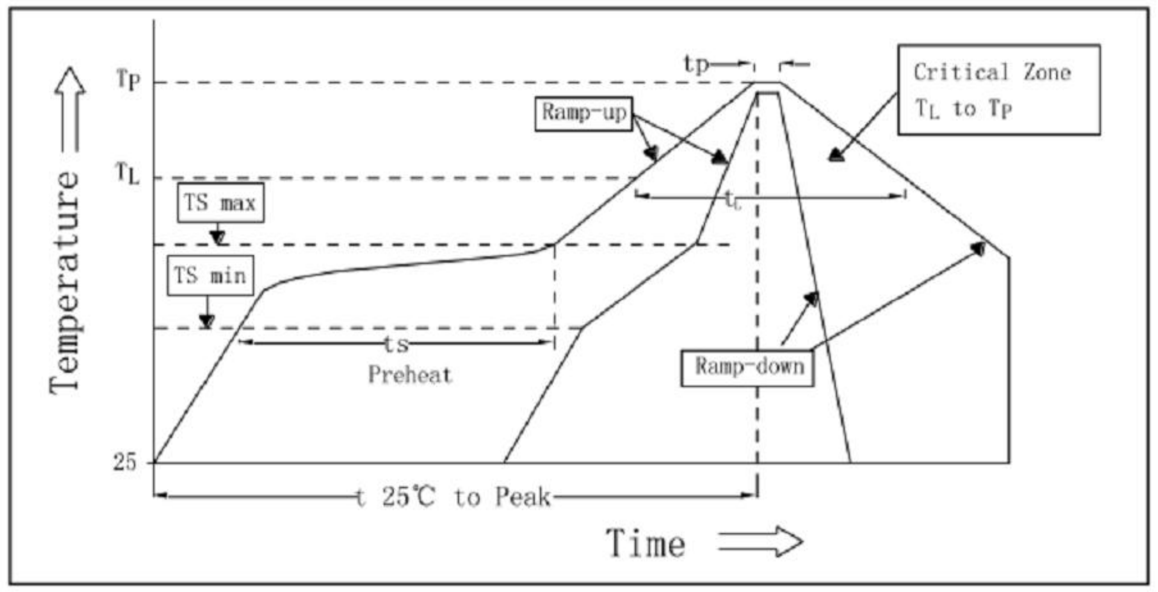
TITLE
SM 2828 RGB W/6 LEADS

MATERIAL

Dialight
1501 ROUTE 34 SOUTH
FARMINGDALE, NJ 07727
(732) 919-3119
www.dialight.com

FAMILY TABLE:

SMT REFLOW SOLDERING INSTRUCTIONS

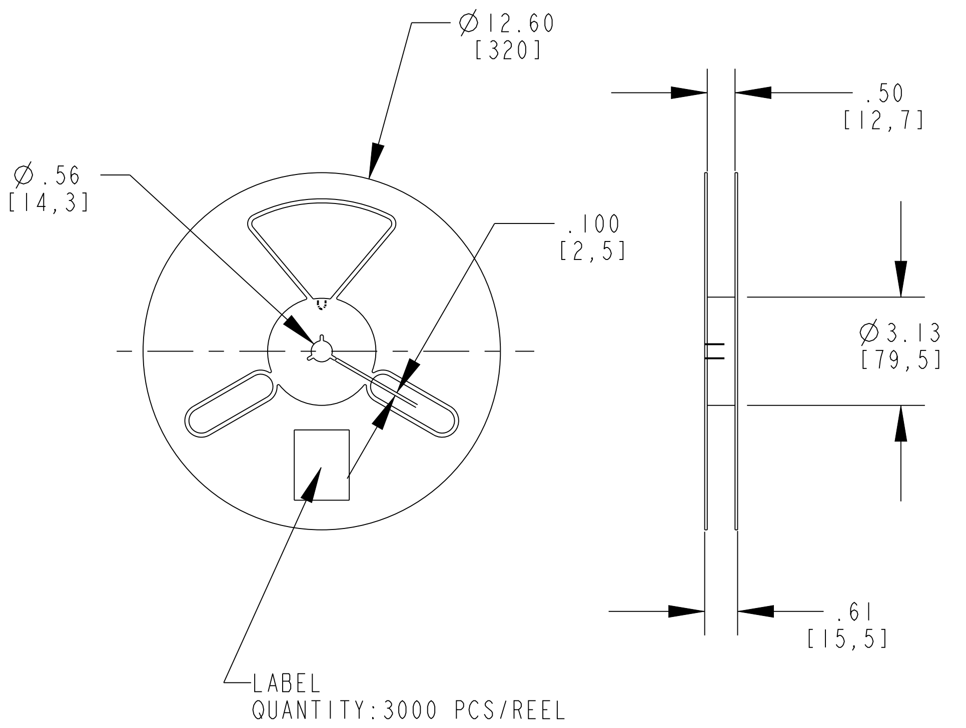


AVERAGE TEMPERATURE RISE SPEED (Tsmax to Tp)	MAX 4°C/s
PREHEATING: MINIMUM TEMPERATURE (Tsmin)	150°C
PREHEATING: MAX. TEMPERATURE (Tsmax)	200°C
PREHEATING: TIME (Tsmin to Tsmax)	60s-120s
TIME LIMITED TO MAINTAIN HIGH TEMPERATURE: THE TEMPERATURE	217°C
TIME LIMITED TO MAINTAIN HIGH TEMPERATURE: THE TIME	MAX 60s
PEAK/CLASSIFICATION OF TEMPERATURE: (Tp)	250°C
SOLDERING TIME:	MAX 10s
RAMP-DOWN RATE:	6°C/s max

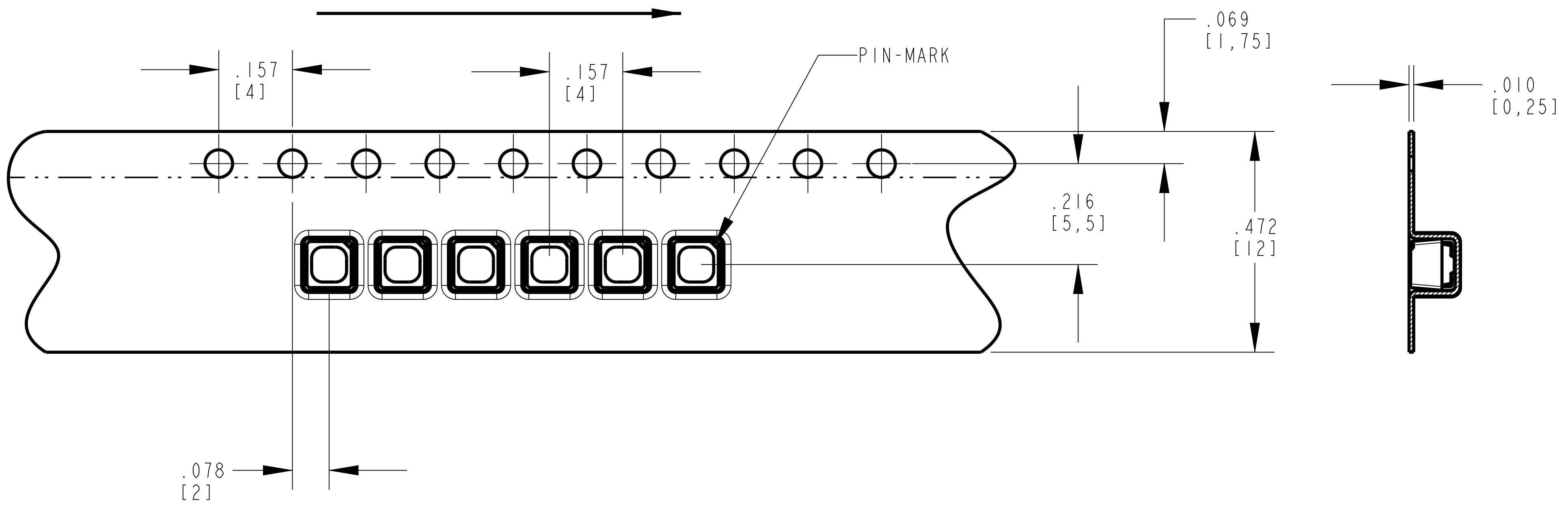
SOLDERING NOTES:

1. REFLOW SOLDERING SHOULD NOT BE DONE MORE THAN ONE TIMES.
2. IT IS RECOMMENDED THE USE OF MIDDLE TEMPERATURE SOLDER PASTE.
3. STRESS ON THE LEDS SHOULD BE AVOIDED DURING HEATING IN SOLDERING PROCESS.
4. AFTER SOLDERING, DO NOT DEAL WITH THE PRODUCT BEFORE TEMPERATURE IS DOWN TO ROOM TEMPERATURE.

13 INCH DIA. REEL SPECIFICATIONS



CARRIER TAPE - FEEDING DIRECTION



ATTENTION:
OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES

DIALIGHT CORP INTERNAL REFERENCE ONLY = 3D MODEL : 8500521857323-SOLDER_PAD-A.3

SCALE: 15.000

ALL DIM'S IN: INCHES (MM)

TOLERANCES:
UNLESS OTHERWISE SPECIFIED

FRACTIONS: ±1/64
DECIMALS (.XX): ±.01
DECIMALS (.XXX): ±.005
DECIMALS (.XXXX): ±.0005
ANGLES: ±1°

FINISH
-

FSCM 83330

DRAWING NUMBER
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SHEET 2 OF 2

FAMILY TABLE: