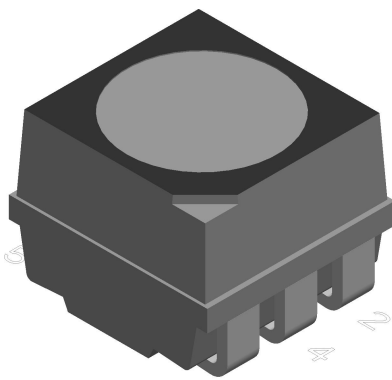


LED SCHEMATIC



SCALE 10.000

- NOTES:
- PIN NUMBERS ARE FOR REFERENCE ONLY, DESIGNATION NON EXISTENT ON PART.
 - 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.
 - STORAGE CONDITIONS FOR TAPED PRODUCTS: RE-TAPING MAY BE NECESSARY FOR PRODUCTS STORED MORE THAN 12 MONTHS.
 - DRY PACK PACKAGING CONSIST OF A DESICCANT, HUMIDITY INDICATOR CARD IN A VACUUM SEALED MOISTER BARRIERBAG, MOISTER SENSITIVITY LABEL LEVEL 5A ON OUTSIDE BAG.
 - QUANTITY: 2,500 PIECES PER REEL/BAG.
 - HBM CLASS 1B
 - OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC SENSITIVE DEVICES.
 - PART No: 598-8F10-313F

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	$V_{F(min)}$	$I_F=20mA$				V
	$V_{F(avg)}$		2.1	3.0	3.0	V
	$V_{F(max)}$		2.4	3.6	3.6	V
DOMINANT WAVELENGTH	λ_D	$I_F=20mA$	618~628	518~528	464~474	nm
SPECTRUM RADIATION BANDWIDTH	$\Delta \lambda$	$I_F=20mA$	24	38	30	nm
LUMINOUS INTENSITY	$I_V(min)$	$I_F=20mA$	550	1600	300	mc d
	$I_V(avg)$		760	1900	450	mc d
VIEWING ANGLE	201/2	$I_F=20mA$	120			deg

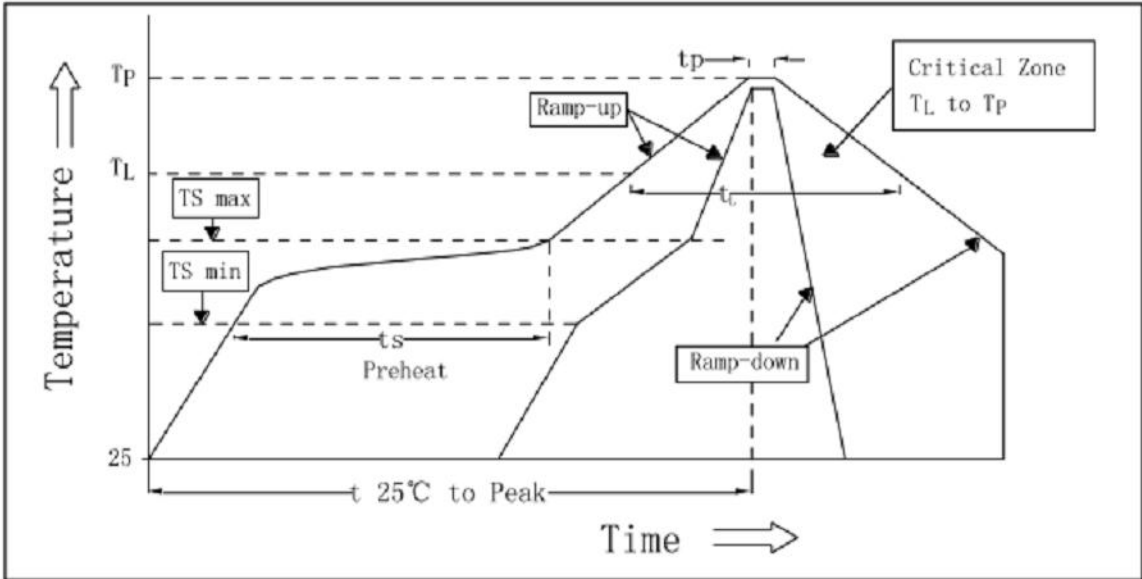
MAXIMUM RATINGS (Ts=25°C)					
ITEM	SYMBOL	ABSOLUTE MAXIMUM RATING			UNITS
		R	G	B	
FORWARD CURRENT	I_F	25	25	25	mA
PULSE FORWARD CURRENT	I_{FP}	100	100	100	mA
REVERSE VOLTAGE	V_R	5	5	5	V
OPERATING TEMPERATURE	T_{OPR}	-30~+85			°C
STORAGE TEMPERATURE	T_{STG}	-40~+100			°C
POWER DISSIPATION	P_D	60	90	90	mW
ELECTROSTATIC DISCHARGE(HBM)	ESD	1000V			



ATTENTION:
OBSERVE PRECAUTIONS FOR
HANDLING ELECTROSTATIC
SENSITIVE DEVICES

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT CORP.			
DIALIGHT CORP INTERNAL REFERENCE ONLY : 3D MODEL : 4500521857223-A.2			
SCALE: 15.000	DRAWING NUMBER		REV
ALL DIM'S IN: INCHES (MM)	C-18480		A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE		SM 3735 RGB W/6 LEADS
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	MATERIAL		
FINISH	Dialight		1501 ROUTE 34 SOUTH FARMINGDALE, NJ 07727 (732) 919-3119 www.dialight.com
FSCM 83330	SHEET 1 OF 2	FAMILY TABLE:	

SMT REFLOW SOLDERING INSTRUCTIONS

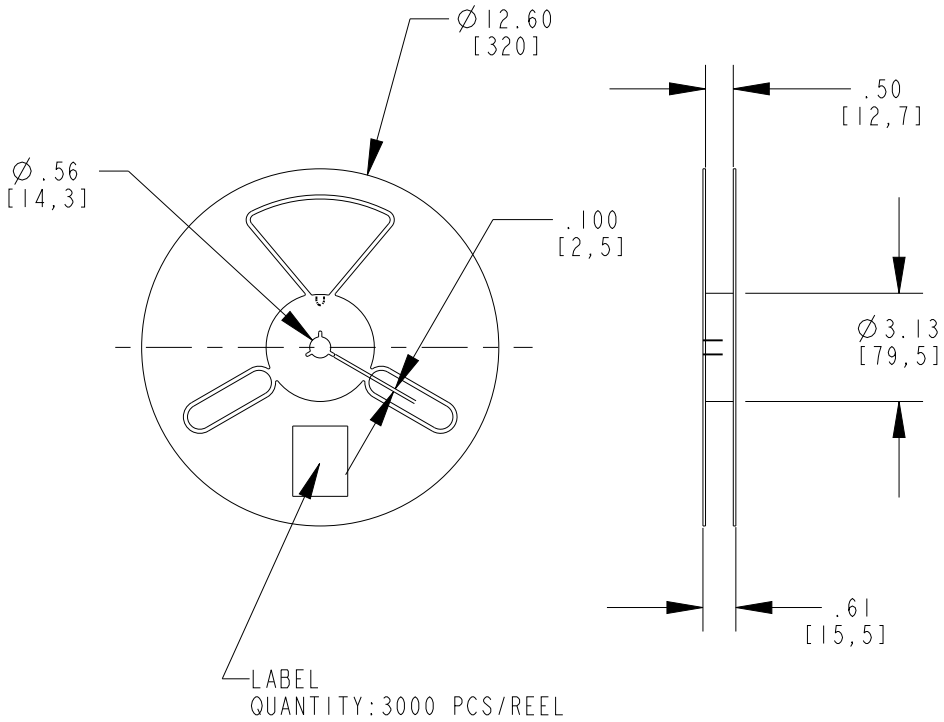


AVERAGE TEMPERATURE RISE SPEED (Tsmax to Tp)	MAX 4°C/s
PREHEATING: MINIMUM TEMPERATURE (Tsmín)	150°C
PREHEATING: MAX. TEMPERATURE (Tsmax)	200°C
PREHEATING: TIME (Tsmín to Tsmax)	60s-120s
TIME LIMITED TO MAINTAIN HIGH TEMPERATURE: THE TEMPERATURE	217°C
TIME LIMITED TO MAINTAIN HIGH TEMPERATURE: THE TIME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

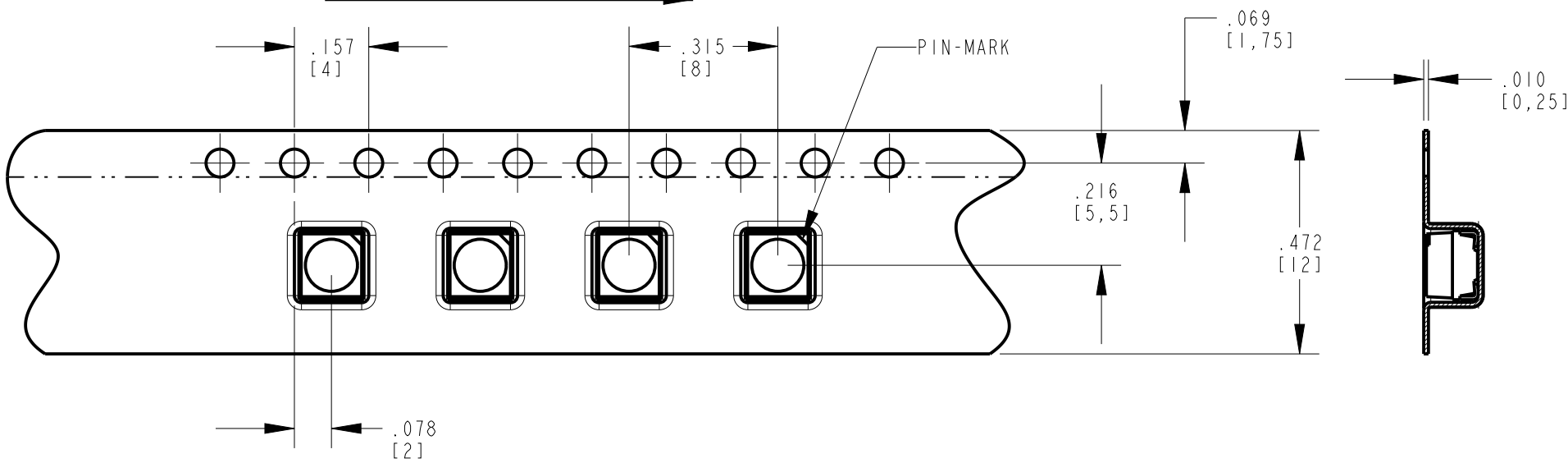
SOLDERING NOTES:

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

THIS DRAWING AND THE CONTENTS HEREIN ARE CONFIDENTIAL AND THE SOLE PROPERTY OF DIALIGHT CORP. REPRODUCTION OF THIS DRAWING OR CONSTRUCTION OF ANY PARTS WITHIN THIS DRAWING ARE FORBIDDEN WITHOUT THE WRITTEN CONSENT OF DIALIGHT CORP.		
DIALIGHT CORP. INTERNAL REFERENCE ONLY - 3D MODEL : 4500521857223-SOLDER-PAD-A.2		
SCALE: 15.000	DRAWING NUMBER	REV
ALL DIM'S IN: INCHES (MM)	C-18480	A
TOLERANCES: UNLESS OTHERWISE SPECIFIED	TITLE	
FRACTIONS: ±1/64 DECIMALS (.XX): ±.01 DECIMALS (.XXX): ±.005 DECIMALS (.XXXX): ±.0005 ANGLES: ±1°	SM 3735 RGB W/6 LEADS	
FINISH	MATERIAL	
	-	
FSCM 83330	<div><div>Dialight</div><div>1501 ROUTE 34 SOUTH FARMINGDALE, NY 07727 (732) 919-3119 www.dialight.com</div></div>	
	SHEET 2 OF 2	FAMILY TABLE:

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

Mouser Electronics

Authorized Distributor

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

Dialight:

[5988F10302F](#) [5988F10313F](#)