CTL1206DPD1T DATASHEET

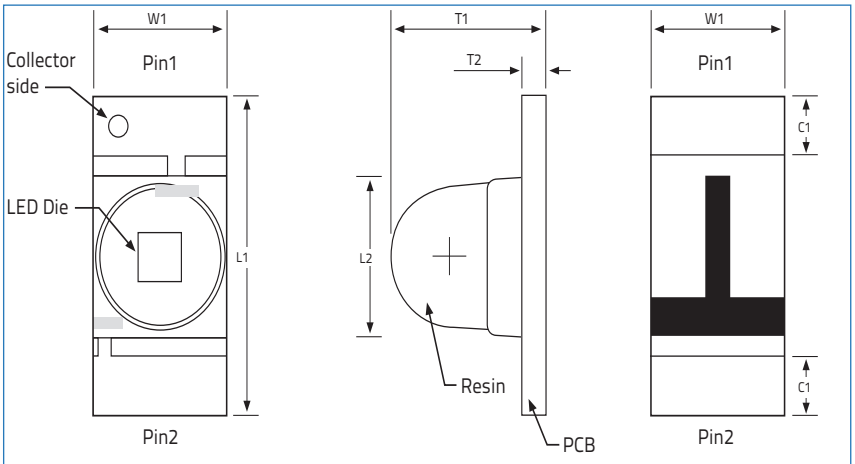
Chip Type LED, 1206, Dome Lens, Phototransistor

VENKEL LTD.

Part Number	Size	Emitting Color	Lens-Color	Rang of Spectral Bandwidth nm λD	Wavelength of Peak Sensitivity nm λP
CTL1206DPD1T	1206	Phototransistor	Black	700 min 1100 max	940

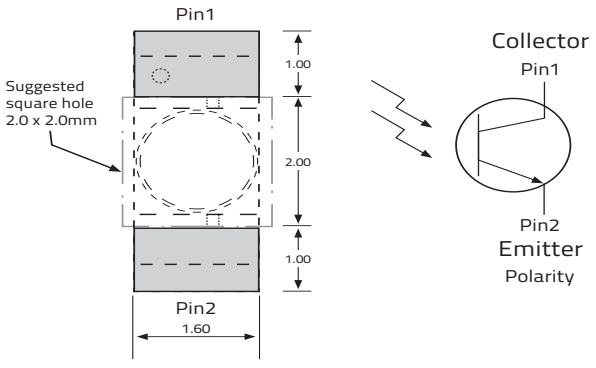
Electrical & Optical Specifactions (T_A=25°C)		PD1	Unit
Collector-Emitter Break-down Voltage (I_C=100uA)	BV_{CEO}	30	V
Emitter-Collector Break-down Voltage (I_E=100uA)	BV_{ECO}	5	V
On State Collector Current (max)	$I_{C(ON)}$	1.0	mA
Wavelength of Peak Sensitivity	λP	940	nm
Collector Dark Current (V_{CE}=20V, E_E=0mW/cm²)	I_{CEO}	100	nA
Collector-Emitter Satura-tion Voltage MAX (I_C=2mA, E_E=1mW/cm²)	$V_{CE(sat)}$	0.4	V
Rise Time Typ. (V_{CE}=5V, I_C=1mA,R_L=1000Ω)	t_r	15	uS
Rise Time Typ. (V_{CE}=5V, I_C=1mA,R_L=1000Ω)	t_f	15	uS

Absolute Maximum Ratings (T_A=25°C)		PD1	Unit
Collector Current	I_C	20	mA
Total Power Dissipation	P_{to}	150	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +100	



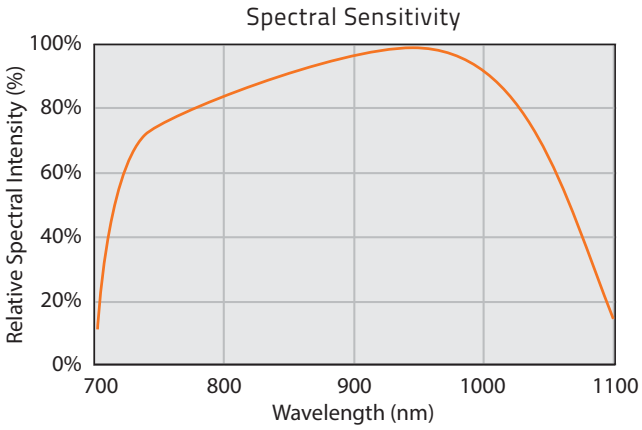
Dimensions			Units: Inches (mm)
L_1	L_2	T_1	T_2
0.1259±0.004 (3.2±0.1)	0.063±0.004 (1.62±0.1)	0.0728±0.004 (1.85±0.1)	0.011±0.004 (0.29±0.1)
W	C1		
0.0629±0.004 (1.60±0.1)	0.0236±0.004 (0.60±0.1)		

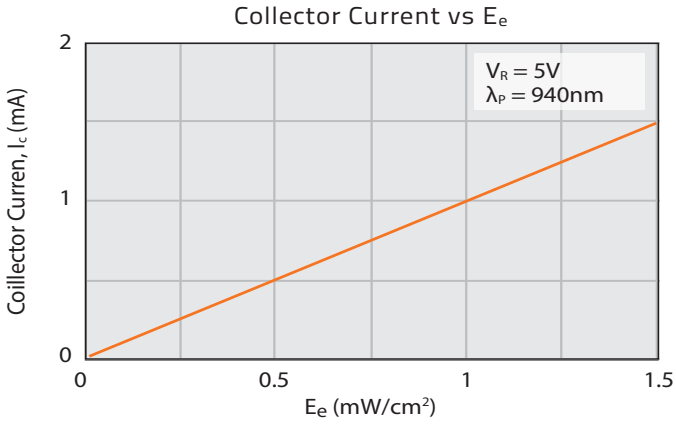
Soldering Pad Layout — Units: mm

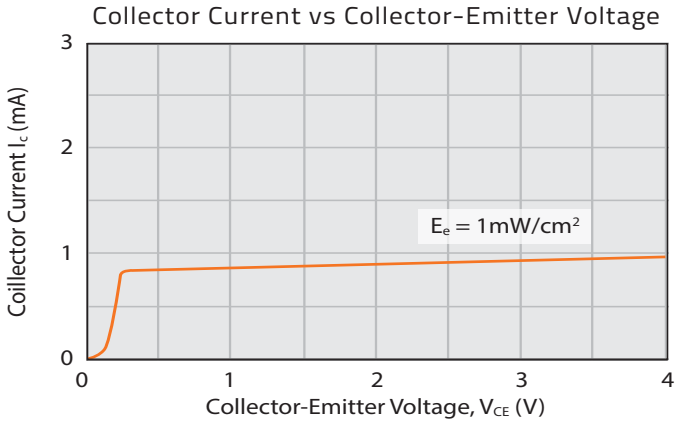


Tolerances are all ±0.1mm

Graphs







Environmental information

RoHS Status	6 of 6 Compliant
REACH Status	Compliant
Halogen Status	Halogen Free
Conflict Mineral Status	Conflict Mineral Free
Moisture Sensitivity Level (MSL)	3

Reflow profile

Max Reflow Temperature	260°C
Number of Reflow Cycles	2
Time at Max Reflow Temperature	10 seconds

Label Example

Item: CTL1206DPD1T
Chip Type LED,1206,Dome Lens,Phototransistor
Qty: 2000 D/C: 4019

Lot: 20160502001

BIN: B1

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YOUR SINGLE SOURCE FOR SURFACE MOUNT PASSIVES

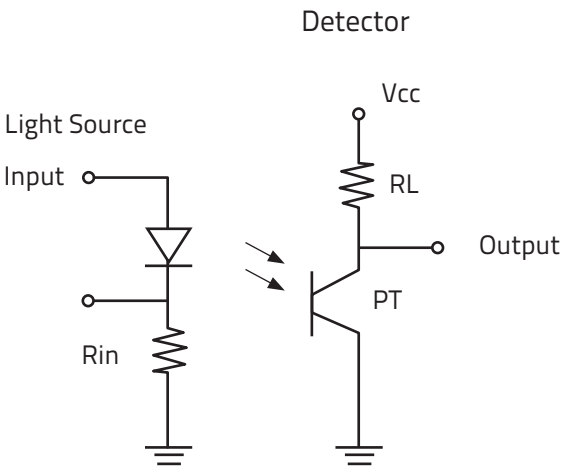
Codes:

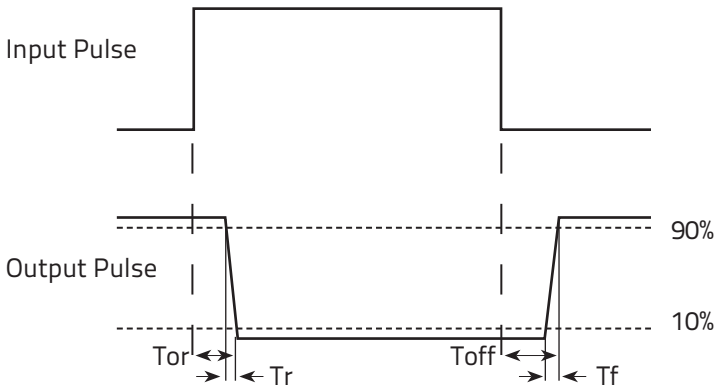
BIN: Radiant Intensity

Radiant Intensity Classification (BIN Code)

BIN Code	I_c	
	Min.	Max.
B1	0.6	1.4

Test Circuit

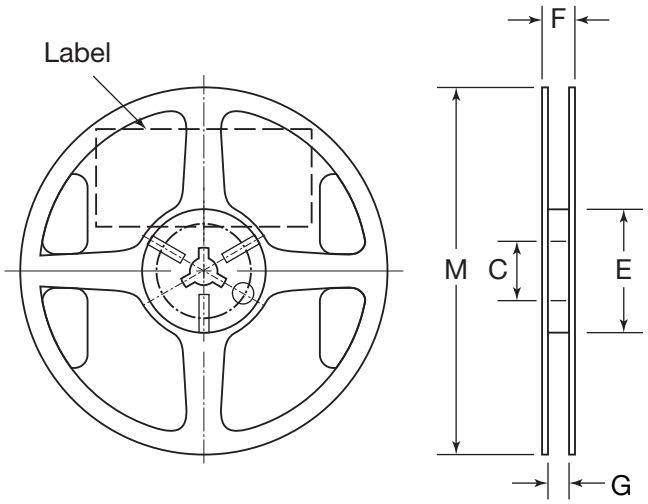




Switching Time

Reel Specifications

Units: mm



M	C	F	E	G
180±1.50	56.0±1.0	12.0±1.0	60.0±1.0	9.0±1.0

Packaging Specifications

Reel Size:	7"
Quantity per Reel :	2,000

Storage Specifications

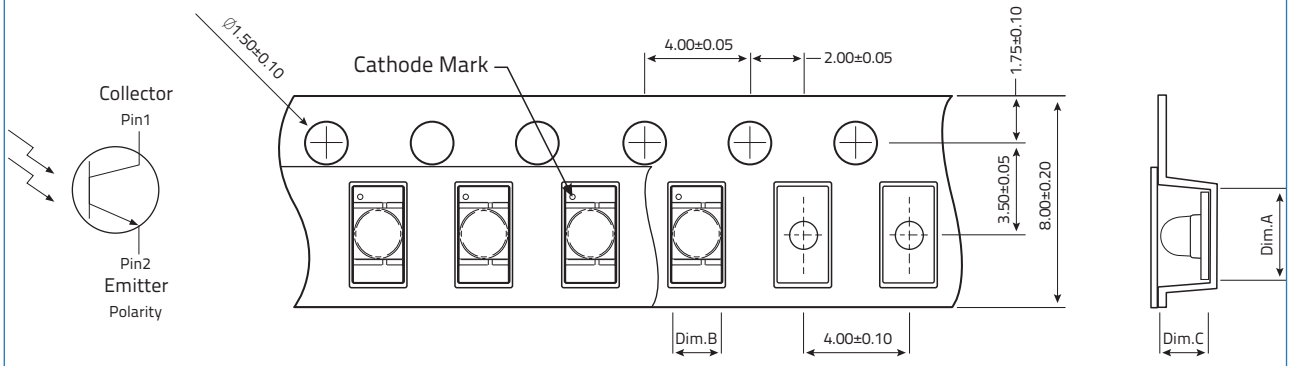
1. Storage temperature and RH: 5°C~35°C, RH60%

2. Once the package is opened, the LEDs should be used within a week. Otherwise, they should be kept in a moisture proof bag with desiccant. We suggest that you use this product within one year from date code.

3. If opened for more than one week in an atmosphere of 5°C~35°C, RH60%. The parts should be heat treated at 60°C±5°C for 15 hours.

Tape Specifications

Units: mm



C	A	B
2.17±0.10	3.37±0.10	1.78±0.10