

TO-1608TY-MWG

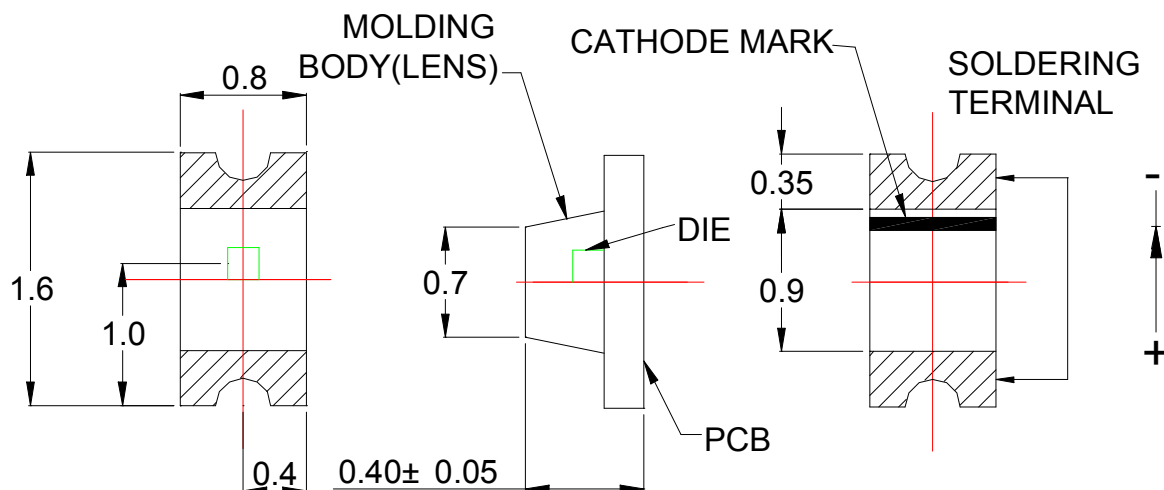
Surface Mount Device LED

Part Number	Chip		Lens Color
	Material	Source Color	
TO-1608TY-MWG	InGaN	Ultra White	Yellow Diffused

Features

- IC compatible
- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder process
- Top view type
- Package in 8 mm tape on 7" diameter reel
- RoHS compliant
- Moisture sensitivity level: level 3

Dimensions



Notes:

1. All dimensions are in millimeters.
2. Tolerance is ± 0.1 mm unless otherwise noted.

Absolute Maximum Rating @ Ta=25°C

Parameter	Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA
Power Dissipation	105	mW
Continuous Forward Current	25	mA
Reverse Voltage	5	V
Operating Temperature Range	-55°C to +85°C	
Storage Temperature Range	-55°C to +105°C	
IR Reflow Soldering Profile For Lead Free Soldering	260°C	

Electrical / Optical Characteristic @ Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	321		917	mcd	I _F =20mA
Viewing Angle	2θ1/2		140		deg	I _F =20mA
Forward Voltage	V _F		3.3		V	I _F =20mA
Reverse Current	I _R			10	μA	V _R =5V
Color Temperature	T _c		8000		K	I _F =20mA
Chromaticity Coordinates	X		0.30			I _F =20mA
Chromaticity Coordinates	Y		0.29			I _F =20mA

Bin Code List for Reference

Luminous Intensity		Unit : mcd@20mA
Bin Code	Min	Max
F4	321	417
G1	417	542
G2	542	705
G3	705	917

Tolerance of Luminous Intensity on each bin is $\pm 15\%$

Forward Voltage		Unit : V@20mA
Bin Code	Min	Max
29	2.8	2.9
30	2.9	3.0
31	3.0	3.1
32	3.1	3.2
33	3.2	3.3
34	3.3	3.4
35	3.4	3.5
36	3.5	3.6

Tolerance for each Forward Voltage Bin is $\pm 0.1V$

Color Bins

A1					
X	0.28	0.268	0.278	0.288	0.28
Y	0.248	0.262	0.279	0.262	0.248
A2					
X	0.288	0.278	0.287	0.296	0.288
Y	0.262	0.279	0.295	0.276	0.262
A3					
X	0.296	0.292	0.309	0.311	0.296
Y	0.276	0.286	0.305	0.294	0.276
A4					
X	0.292	0.287	0.307	0.309	0.292
Y	0.286	0.295	0.315	0.305	0.286
A5					
X	0.311	0.309	0.33	0.33	0.311
Y	0.294	0.305	0.329	0.318	0.294
A6					
X	X	0.309	0.307	0.33	0.33
Y	Y	0.305	0.315	0.339	0.329

