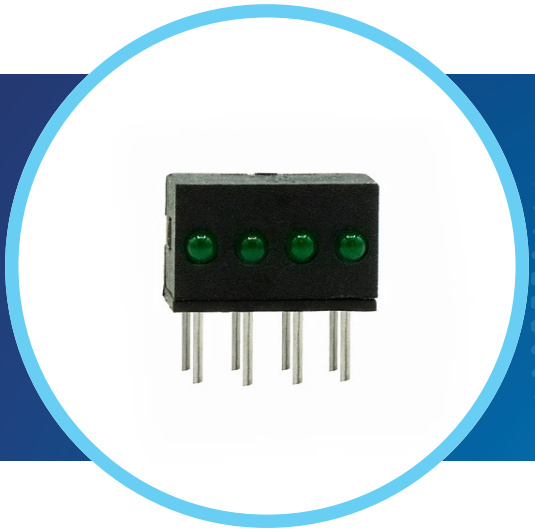
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555 SERIES

2mm Quad LED Array Right Angle Mount

APPLICATIONS

- Status Indicator
- Telecommunication equipment
- Medical Devices
- Testing and Measurement equipment
- Backlighting and Illumination

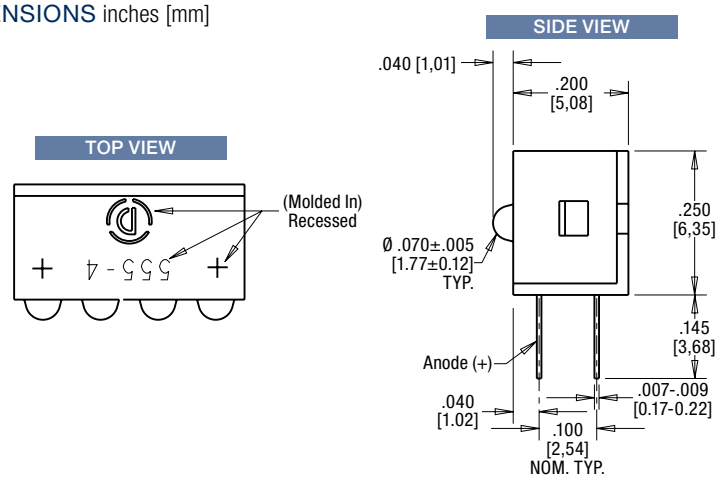
NOTES

1. Pin numbers for reference only Designation non-existent on part.
2. This assembly contains electrostatic discharge sensitive devices (ESDS).
3. LED lead dimensions shown are measured at housing exit.
4. Leads to fit into holes spaced as per pattern.

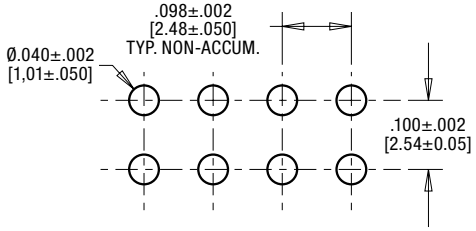
FEATURES & BENEFITS

- Black UL rated PBT material housing
- Small and compact design
- 4 LED array with consistent and high efficiency brightness
- Available in customizable LED color configuration

DIMENSIONS inches [mm]



RECOMMENDED PCB HOLE PATTERN



SINGLE COLOR LED SCHEMATIC



ELECTRICAL/OPTICAL CHARACTERISTICS (@ 25°C AMBIENT)

Part Number	Emitted Color	Lens Color	Test Conditions	Luminous Intensity (mcd)			Dominant Wavelength (nm)			Forward Voltage (V)			Reverse Current (µA)			Viewing Angle
				Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
555-4001NF	Red	Red Diffused	I_F=20mA	40	110	200	635	645	650	1.8	2.2	2.4	-	-	10	35
555-4301NF	Green	Green Diffused		20	80	200	565	-	575	1.8	2.0	2.4	-	-	10	30
555-4401NF	Yellow	Yellow Diffused		10	30	50	585	590	595	1.8	2.2	2.4	-	-	10	35

Notes:
1. Luminous intensity measurement tolerance: ±10%
2. Dominant wavelength measurement tolerance: ±1.0nm
3. Forward voltage measurement tolerance: ±0.05V

ABSOLUTE MAXIMUM RATINGS (@ 25°C AMBIENT)

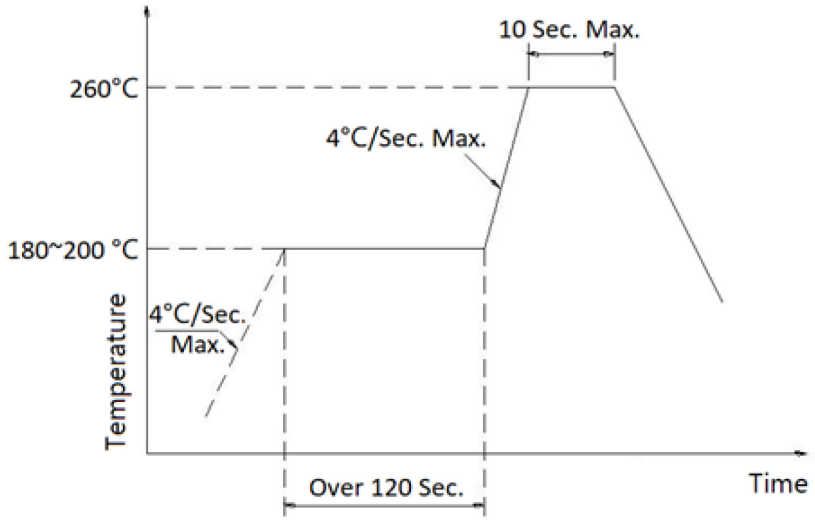
LED Color	Forward Current (mA)	Pulse Forward Current (mA)	Power Dissipation (mW)	Reverse Voltage (V)	Operating Temperature (°C)	Storage Temperature (°C)	Soldering Condition (°C)
Red	20	80	48	5	-40~+85	-40~+100	Reflow soldering 260°C, 10 Sec Max. Hand soldering 350°C, 3 Sec.
Green	20	80	52	5			
Yellow	20	80	52	5			

Notes: Condition of I_{FP}: Pulse 1/10 duty and 0.1 msec width.

REFLOW SOLDERING PROFILE

Reflow Soldering	
Pre-heat	180~200°C
Pro-heat time	120 seconds max.
Peak temperature	260°C max.
Soldering time	10 seconds max.
Condition	Refer to temperature-profile

After reflow soldering rapid cooling should be avoided
Temperature-profile (surface of circuit board)
Use the following conditions shown in the figure.



1. Reflow soldering should not be done more than two times.
2. When soldering, do not put stress on the LEDs during heating.

RoHS compliant

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