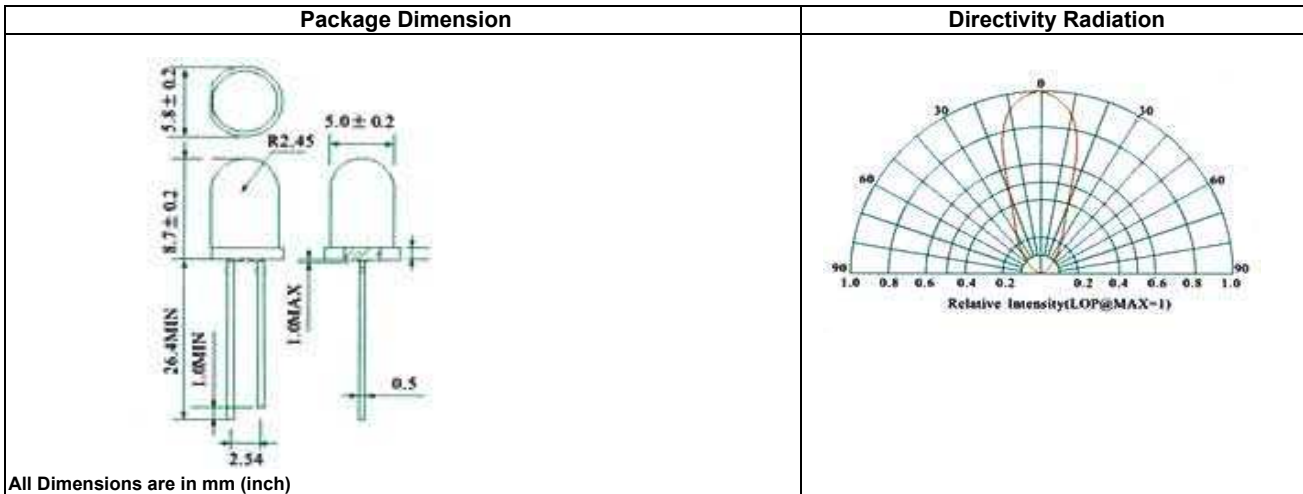


5.8 mm Round Type LED with Collar, Viewing Angle - 40°

52K-3 Series



Electrical Characteristics							
Part No.	Chip Material	Emitted Colour	Lens Colour	Wave Length	Electro - Optical		
					Characterstics (I <sub>f</sub> = 20mA)		
				λP (nm)	V <sub>f</sub> (v)		I <sub>v</sub> (mcd)
					Typ.	Max	
52K42C-3001	AlGaInP	Ultra Yellow Green	Water	570	1.8	2.6	500
52K43C-3001	AlGaInP	Ultra Yellow Green	Water	570	1.8	2.6	1000
52K44C-3001	AlGaInP	Ultra Yellow Green	Water	570	1.8	2.6	1500
52K45C-3001	AlGaInP	Ultra Yellow Green	Water	570	1.8	2.6	2000
52K55C-3001	AlGaInP	Ultra Yellow	Water	590	1.8	2.6	4000
52K56C-3001	AlGaInP	Ultra Yellow	Water	590	1.8	2.6	6000
52K57C-3001	AlGaInP	Ultra Yellow	Water	590	1.8	2.6	8000
52K58C-3001	AlGaInP	Ultra Yellow	Water	590	1.8	2.6	10000
52K65C-3001	AlGaInP	Ultra Orange	Water	605	1.8	2.6	4000
52K66C-3001	AlGaInP	Ultra Orange	Water	605	1.8	2.6	6000
52K67C-3001	AlGaInP	Ultra Orange	Water	605	1.8	2.6	8000
52K68C-3001	AlGaInP	Ultra Orange	Water	605	1.8	2.6	10000
52K75C-3001	AlGaInP	Ultra Red	Water	625	1.8	2.6	4000
52K76C-3001	AlGaInP	Ultra Red	Water	625	1.8	2.6	6000
52K77C-3001	AlGaInP	Ultra Red	Water	625	1.8	2.6	8000
52K78C-3001	AlGaInP	Ultra Red	Water	625	1.8	2.6	10000

52K-3\_LEDRev100506D

Electrical Parameter (at T <sub>a</sub> = 25°C)						
Colour	Reverse Voltage V <sub>r</sub> (v)	Forward Current I <sub>f</sub> (mA)	Forward Current Peak I <sub>fp</sub> * (mA)	Power Pd (mW)	Operating Temp T <sub>opr</sub> (°C)	Storage Temp T <sub>stg</sub> (°C)
Green (GaP)	6	25	100	80	-25 ~ +80	-40 ~ +40
Red (GaP)	6	25	100	80	-25 ~ +80	-40 ~ +40
Orange (GaAsP/GaP)	6	25	100	80	-25 ~ +80	-40 ~ +40
Yellow (GaAsP/GaP)	6	25	100	80	-25 ~ +80	-40 ~ +40
Ultra Yellow (AlGaInP)	6	30	100	80	-25 ~ +80	-40 ~ +40
Ultra Orange (AlGaInP)	6	30	100	80	-25 ~ +80	-40 ~ +40
Ultra Red (AlGaInP)	6	30	100	80	-25 ~ +80	-40 ~ +40
Ultra Yellow Green	6	30	100	80	-25 ~ +80	-40 ~ +40
Blue (GaN/SiC)	6	30	100	170	-25 ~ +80	-40 ~ +40
* 1/10 Duty Cycle. 0.1 ms Pulse Width						

Soldering Instructions						
Types	DIP and Wave Soldering			Iron Soldering (1.5 mm Iron Tip)		
	Temp of Soldering Bath	Max Soldering Time	Distance from Solder Joint to Case	Temp of Soldering Iron	Max Soldering Time	Distance from Solder to case
LEDs	≤ 260 °C	3S	>2mm	≤ 300 °C	3S	>2mm
	≤ 260 °C	5S	>4mm	≤ 300 °C	5S	>4mm

#### Component Disposal Instructions

1. All Devices are RoHS compliant, customers are requested to please dispose as per prevailing Environmental Legislation of their Country.
2. In Europe, please dispose as per EU Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

#### Disclaimer

The product information and the selection guides facilitate selection of the next LEDs best suited for application in your product(s) as per your requirement. It is recommended that you completely review our Data Sheet(s) so as to confirm that the LED(s) meet functionality parameters for your application. The information furnished in the Data Sheet and on the CDIL Web Site/CD are believed to be accurate and reliable. CDIL however, does not assume responsibility for inaccuracies or incomplete information. Furthermore, CDIL does not assume liability whatsoever, arising out of the application or use of any CDIL product; neither does it convey any license under its patent rights nor rights of others. These products are not designed for use in life saving/support appliances or systems. CDIL customers selling these products (either as individual LEDs or incorporated in their end products), in any life saving/support appliances or systems or applications do so at their own risk and CDIL will not be responsible for any damages resulting from such sale(s). CDIL strives for continuous improvement and reserves the right to change the specifications of its products without prior notice.



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