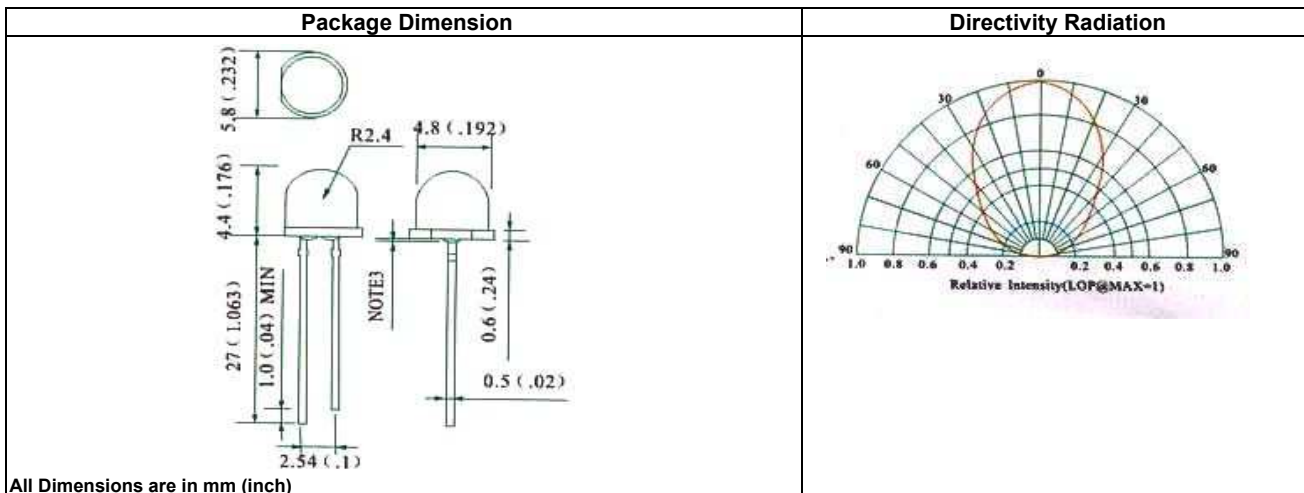


5.8 mm Round Type LED with Collar, Viewing Angle - 80°

52Q Series



Electrical Characteristics							
Part No.	Chip Material	Emitted Colour	Lens Colour	Wave Length	Electro - Optical		
					Characteristics (I _f = 20mA)		
				λP (nm)	V _f (V)		I _v (mcd)
					Typ.	Max	
52Q70D-4001	GaP/GaP	Hi-Red	Red Diffused	700	1.8	2.6	1
52Q70T-4001	GaP/GaP	Hi-Red	Red Transparent	700	1.8	2.6	2
52Q71D-4001	GaAsP/GaP	Hi-Eff Red	Red Diffused	640	1.8	2.6	25
52Q71T-4001	GaAsP/GaP	Hi-Eff Red	Red Transparent	640	1.8	2.6	100
52Q41D-4001	GaP/GaP	Yellow Green	Green Diffused	570	1.8	2.6	5
52Q41T-4001	GaP/GaP	Yellow Green	Green Transparent	570	1.8	2.6	25
52Q51D-4001	GaAsP/GaP	Yellow	Yellow Diffused	585	1.8	2.6	5
52Q51T-4001	GaAsP/GaP	Yellow	Yellow Transparent	585	1.8	2.6	25
52Q61D-4001	GaAsP/GaP	Orange	Orange Diffused	605	1.8	2.6	5
52Q61T-4001	GaAsP/GaP	Orange	Orange Transparent	605	1.8	2.6	25
52Q11D-4001	GaN	Blue	Blue Diffused	470	2.6	3.8	50
52Q11C-4001	GaN	Blue	Water	470	2.6	3.8	250
52Q22C-4001	GaN	Blue Green	Water	505	2.6	3.8	1000
52Q32C-4001	GaN	Green	Water	525	2.6	3.8	1000
52Q82C-4001	GaN	White	Water		2.6	3.8	500
52Q82W-4001	GaN	White	Water Diffused		2.6	3.8	150

Electrical Parameter (at $T_a = 25^{\circ}\text{C}$)						
Colour	Reverse Voltage V_r (v)	Forward Current I_f (mA)	Forward Current Peak I_{fp}^* (mA)	Power Pd (mW)	Operating Temp T_{opr} ($^{\circ}\text{C}$)	Storage Temp T_{stg} ($^{\circ}\text{C}$)
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	$\leq 260^{\circ}\text{C}$	3S	>2mm	$\leq 300^{\circ}\text{C}$	3S	>2mm
	$\leq 260^{\circ}\text{C}$	5S	>4mm	$\leq 300^{\circ}\text{C}$	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.



CDIL is a registered Trademark of
Continental Device India Limited

C-120 Naraina Industrial Area, New Delhi 110 028, India.
Telephone + 91-11-2579 6150, 4141 1112 Fax + 91-11-2579 5290, 4141 1119
email@cdil.com www.cdilsemi.com