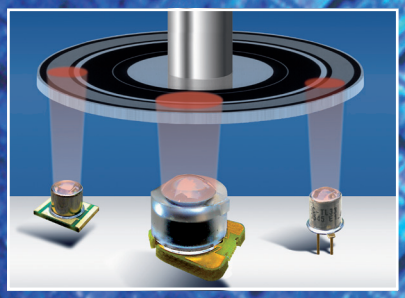
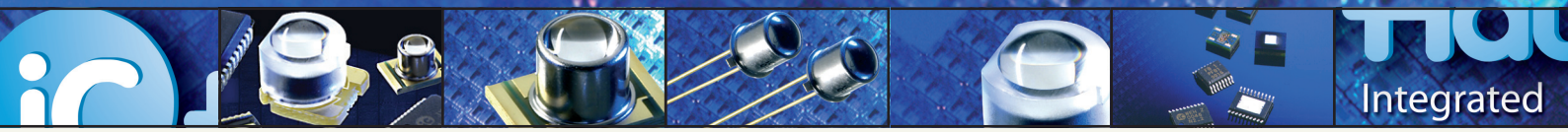
iC-LED

LIGHT FOR MOTION



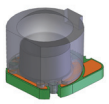
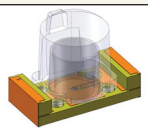
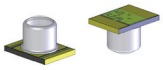
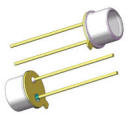
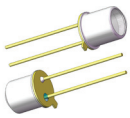


iC-Haus LEDs with their outstanding characteristics have been developed for optical encoder applications, where excellent beam quality is required for high contrast ratio.
Those LEDs can also be used in optical distance meters and modulated light barriers which benefit from high speed switching characteristics.
The robust IR-LED light source provides excellent performance regarding high temperature operation and long term reliability.

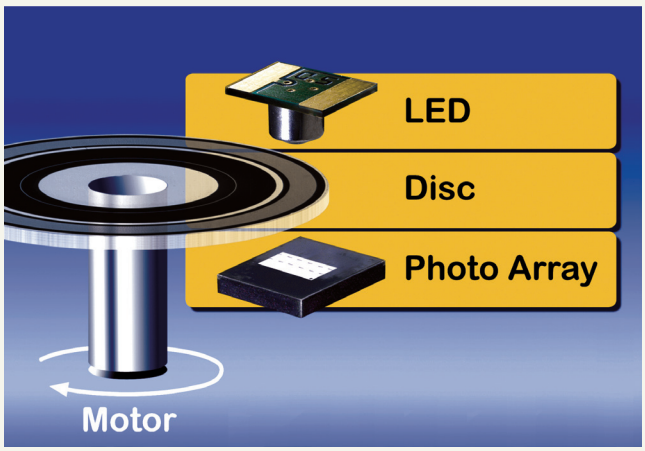
Features & Applications

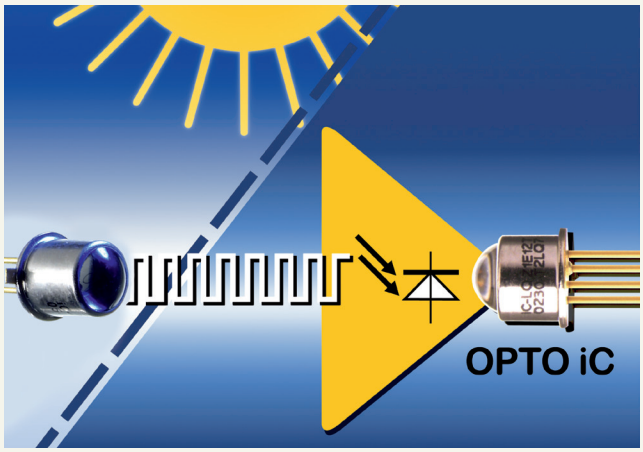
- Optimized irradiance pattern
- High operating temperature range of -40 to 125 °C
- Illumination for high resolution optical encoders
- Modulated light barriers
- Optical distance metering applications

Key Specifications

	 iC-SG85 SG1C	 iC-SN85 SN1C	 iC-SD85 SD2C-2	 iC-SD85 SD1C	 iC-TL85 TO46-2F	 iC-TL85 TO46-2L1
Forward Voltage (@ 20 mA)	typ. 1.4 V					
Radiant Power (@ 20 mA)	typ. 2.7 mW	typ. 5.4 mW	typ. 4.5 mW	typ. 1.8 mW	typ. 2.7 mW	typ. 1.8 mW
Peak Wavelength	typ. 850 nm					
Illumination Spot Size	typ. 8 mm	typ. 6 mm	-	typ. 3.4 mm	-	typ. 3.4 mm
Switching Time	typ. 12 ns					
Forward Current (DC)	100 mA max.					
Operating Ambient Temperature Range	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C
Storage Temperature Range	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C	-40 to +125 °C
Power Dissipation (@ 20 °C)	150 mW max.					

Application Example





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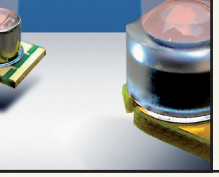
Phone: +49 (6135) 9292-300 • Fax: +49 (6135) 9292-192 • http://www.ichaus.com

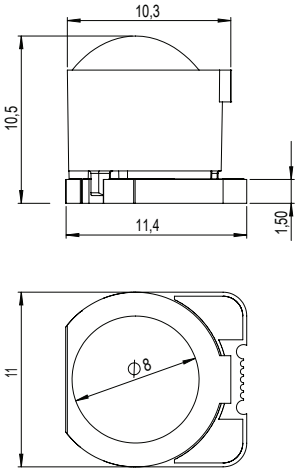


iC-LED

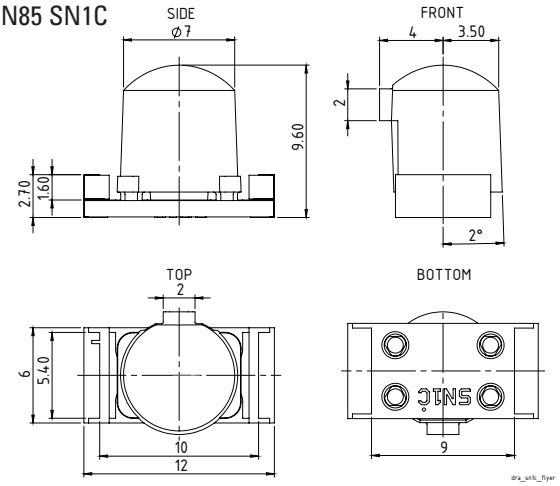
LIGHT FOR MOTION

Mechanical Dimensions

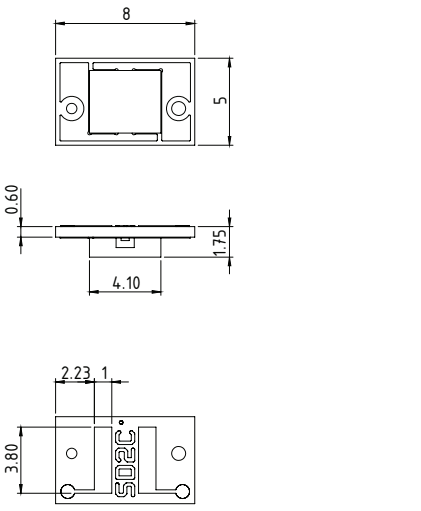
iC-SG85 SG1C



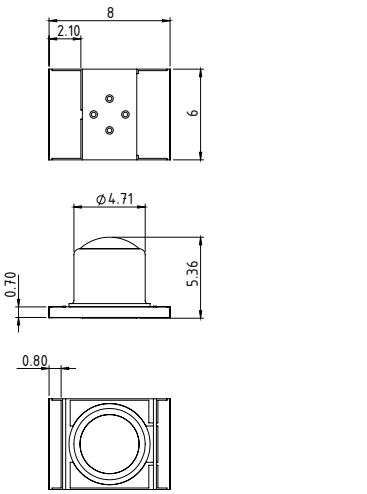
iC-SN85 SN1C



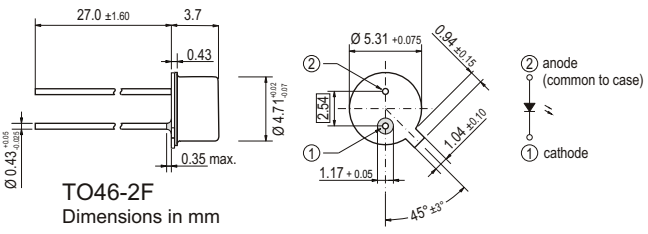
iC-SD85 SD2C-2



iC-SD85 SD1C

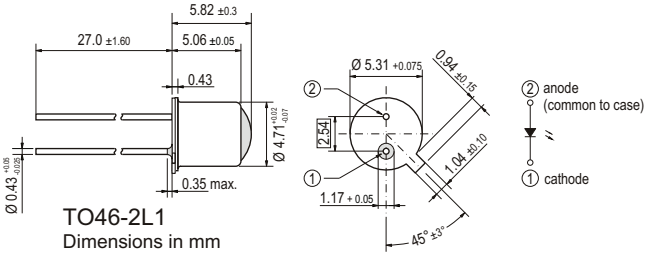


iC-TL85 TO46-2F



TO46-2F
Dimensions in mm

iC-TL85 TO46-2L1



TO46-2L1
Dimensions in mm