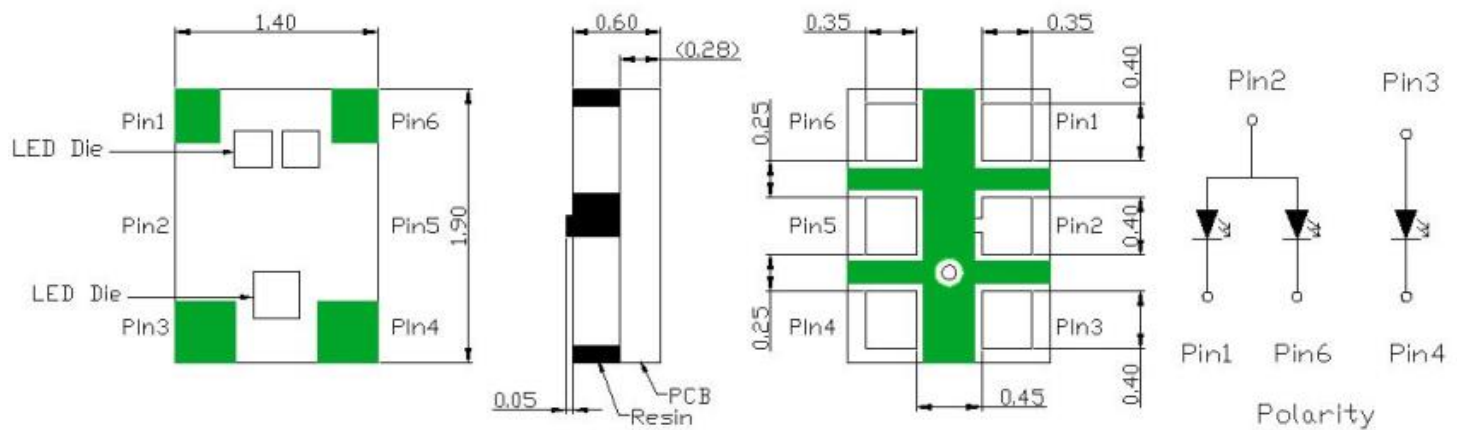


■ Characters:

- SMD Chip LED
- 1.90(L)x1.40(W)x0.65(H) mm
- Top view

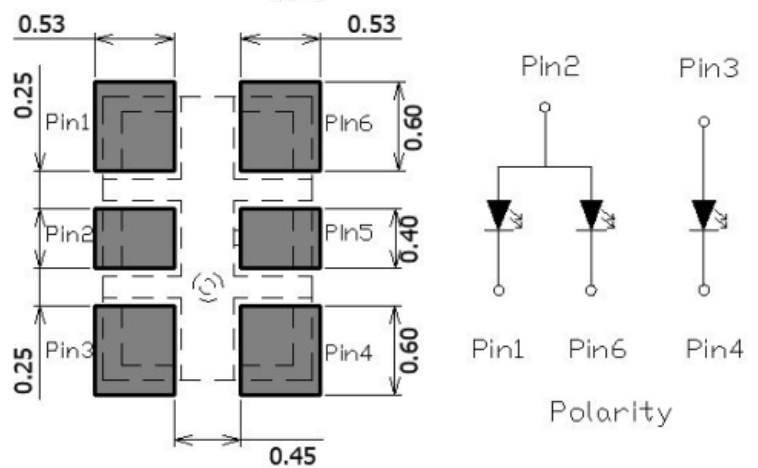
■ Package Outline Dimensions

Unit: mm Tolerance:±0.1



■ Recommended Soldering Pattern

Unit: mm



■ Absolute Maximum Ratings(T_s=25°C)

Item(IRA / IRW)	Symbol	Value	Unit
Forward Current	I _F	70	mA
Reverse Voltage	V _R	10	V
Operating Temperature	T _{opr}	-40 to 85	°C
Storage Temperature	T _{stg}	-40 to 85	°C
Soldering Temperature	T _{sol}	260	°C

1. Soldering time ≤ 5 seconds.

Item(PT)	Symbol	Value	Unit
Reverse Breakdown Voltage	V _{BR}	40	V
Operating Temperature	T _{opr}	-40 to 85	°C
Storage Temperature	T _{stg}	-40 to 85	°C
Soldering Temperature	T _{sol}	260	°C

■ Product Specifications

Item(IRA)	Specification
Wavelength (nm)	1010 – 1050 nm @30mA/ TS= 25°C;Tolerance:±0.5nm
Voltage (V)	Typ : 1.25 V @30mA/ TS= 25°C;Tolerance:±0.05V
Item(IRW)	Specification
Wavelength (nm)	1410 – 1490 nm @30mA/ TS= 25°C;Tolerance:±0.5nm
Voltage (V)	Typ : 1.05 V @30mA/ TS= 25°C;Tolerance:±0.05V
Item(PT)	Specification
Peak Sensitivity (nm)	1310nm @VR=5V/ TS= 25°C
Spectral Bandwidth (nm)	400nm~1700nm @ VR =5V/ TS= 25°C

■ Electrical-Optical Characteristics

(TS=25°C)

Series	Color	Voltage (V)	Wavelength peak (nm)	Test Condition
		Typical	Typical	
B4163PDRR	IRA	1.25	1050	IF=30mA
B4163PDRR	IRW	1.05	1450	IF=30mA

Series	Color	Spectral Bandwidth	Peak Sensitivity (λP)	Test Condition
		Typical	Typical	
B4163PDRR	PD	400~1700	1310	VR=5V

Series	Color	Spectral Bandwidth	Light Current (uA)	Test Condition (Use gray card)
		Typical	Typical	
B4163PDRR	Sensor (IRA)	400~1700	2.5	VR=5V,IF=20mA,d=1mm
B4163PDRR	Sensor (IRW)		1.1	VR=5V,IF=20mA,d=1mm

■ Characteristics

