

Shenzhen Xijin Optical Technology Co., Ltd.

PRELIMINARY SPEC

1.0x0.5X0.48mm SMD CHIP LED



ATTENTION

OBSERVE PRECAUTIONS
FOR HANDLING
LECTROSTATIC DISCHARGE
SENSITIVE DEVICES

Applications

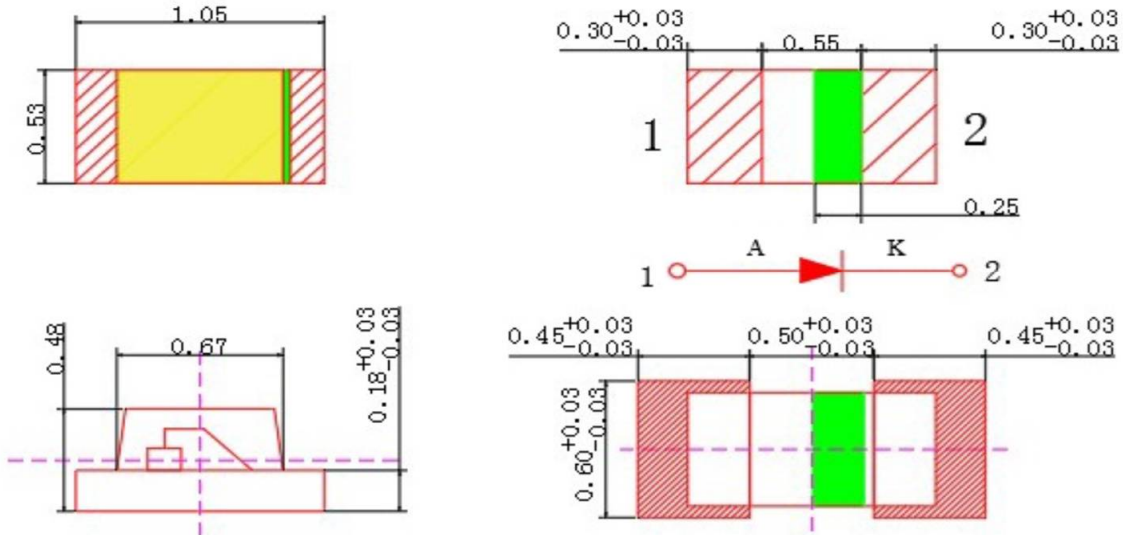
Automotive: backlighting in dashboard and switch.

Telecommunication: indicator and back-lighting in telephone and fax.

Flat backlight for LCD switch and symbol.

Small scale modelling.

Package Dimensions (mm)



◆ Absolute Maximum Ratings at TA=25°C

Parameter	Symbol	Value	Unit
Power Dissipation	PD	60	mW
Forward Current	IF	20	mA
Peak Forward Current*1	IFP	60	mA
Reverse Voltage	VR	5	V
Operating Temperature	Topr	-40°C To +85°C	
Storage Temperature	Tstg	-40°C To +85°C	

Notes:

*1: Pulse width≤0.1ms, Duty cycles≤1/10

2: Maximum ratings are defined as independent test conditions. If the condition exceeds the maximum rating, such as forward current, junction temperature, such excess may cause LED chip to damage.

◆ Electrical / Optical Characteristics at TA=25°C: IF = 20mA; VR = 5V

Model	Forward Voltage (Vf)			Reverse Current IR (μA)	Wavelength λd (nm)	Forward Current If (mA)	Luminous Intensity IV (mcd)	Viewing Angle 2θ1/2 (°)
	Min (V)	Avg. (V)	Max (V)					
CZ0402-Y	1.8	2.0	2.2	10	571 ~ 579	20	130 ~ 160	120
CZ0402-G	1.8	2.0	2.2	10	563 ~ 567	20	300 ~ 400	120
CZ0402-R	1.8	2.0	2.2	10	585 ~ 595	20	120 ~ 150	120
CZ0402-O	1.9	2.1	2.3	10	577 ~ 582	20	130 ~ 160	120
CZ0402-B	2.8	3.0	3.2	10	470 ~ 490	20	120 ~ 150	120
CZ0402-W	2.8	3.0	3.2	10	6000K	20	120 ~ 150	120