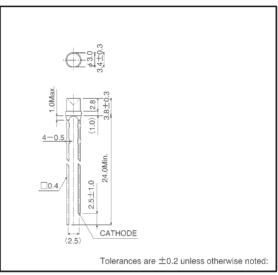
# Inverted cone LEDs, directly mountable (\$\$ mm) SLV-312 Series

The SLV-312 series are 3 mm inverted cone LEDs which are directly mountable on a printed circuit board. Four colors are available, and they are suitable for use in a wide variety of applications.

#### Features

- 1) Four colors : red, orange, yellow, and green.
- Compact epoxy resin package with a diameter of 3 mm.
- 3) High reliability.

### External dimensions (Units: mm)



## Selection guide

Emitting color Lens	Red	Orange	Yellow	Green	
Colored clear	SLV-312VC	SLV-312DC	SLV-312YC	SLV-312MC	

## •Absolute maximum ratings (Ta = $25^{\circ}$ C)

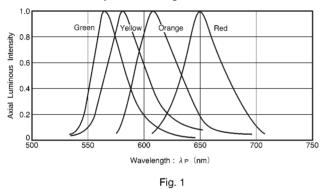
Parameter	Symbol	Red	Orange	Yellow	Green	Unit		
		SLV-312VC	SLV-312DC	SLV-312YC	SLV-312MC	Unit		
Power dissipation	P⊳	60	60	60	60	mW		
Forward current	lF	20	20	20	25	mA		
Peak forward current	IFP	60*	60*	60*	60*	mA		
Reverse voltage	VR	3	3	3	3	V		
Operating temperature	Topr	-25~+85						
Storage temperature	Tstg	-30~+100						
Soldering temperature	-		_					

\* Pulse width 1ms Duty 1 / 5

Parameter Symbol	Symbol	Conditions	Red		Orange		Yellow			Green			Unit		
	Conditions	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Unit	
Forward voltage	VF	I⊧=10mA	—	2.0	3.0	_	2.0	3.0	_	2.1	3.0	—	2.1	3.0	V
Reverse current	IR	V <sub>R</sub> =3V	—	—	10	—	-	10	_		10	_	—	10	μA
Peak wavelength	λp	I⊧=10mA	—	650	-	—	610	_	_	585	—	_	563	-	nm
Spectral line half width	λΔ	I⊧=10mA	_	40	-	_	40	_	_	40	_	_	40	-	nm
Viewing angle	2 8 1/2	Colored clear	_	140	-	_	140	_	_	140	-	_	140	_	deg

# •Electrical and optical characteristics (Ta = $25^{\circ}$ C)

•Luminous intensity vs. wavelength

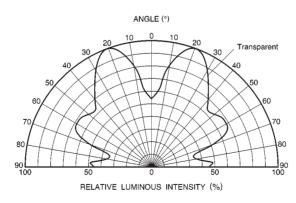


# Luminous intensity

Color	λp	Туре	Min.	Тур.	Max.	Unit
Red	650	SLV-312VC	0.56	1.6	—	mcd
Orange	610	SLV-312DC	0.56	1.6	—	mcd
Yellow	585	SLV-312YC	0.56	1.6	_	mcd
Green	563	SLV-312MC	1.4	4.0	_	mcd

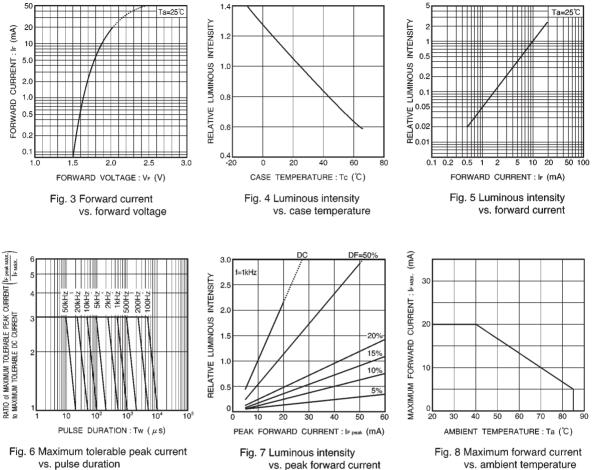
Note: Measured at IF = 10 mA

Directional pattern



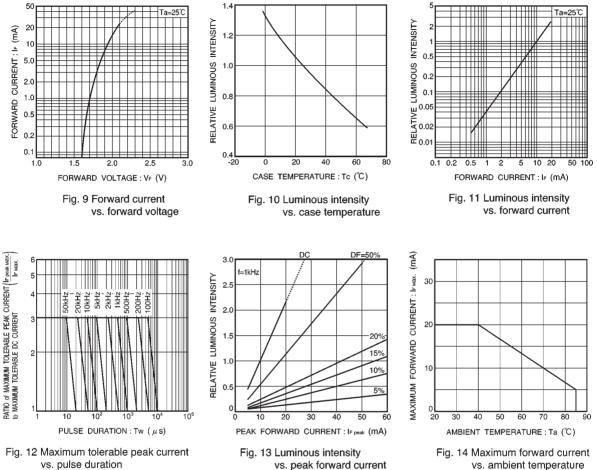


Electrical characteristic curvers 1 (red)



vs. pulse duration

### Electrical characteristic curves 2 (orange)



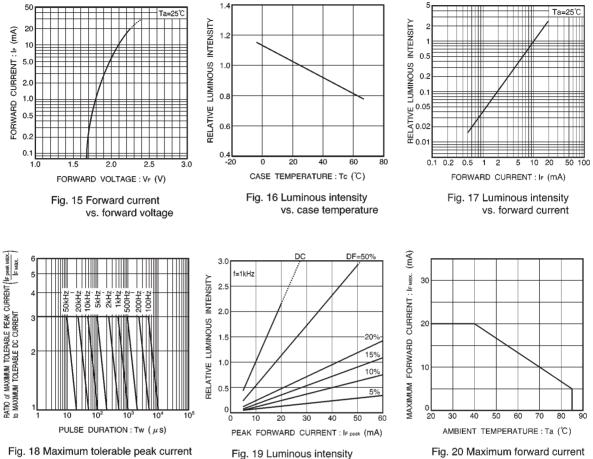
vs. peak forward current

86



Electrical characteristic curvers 3 (yellow)

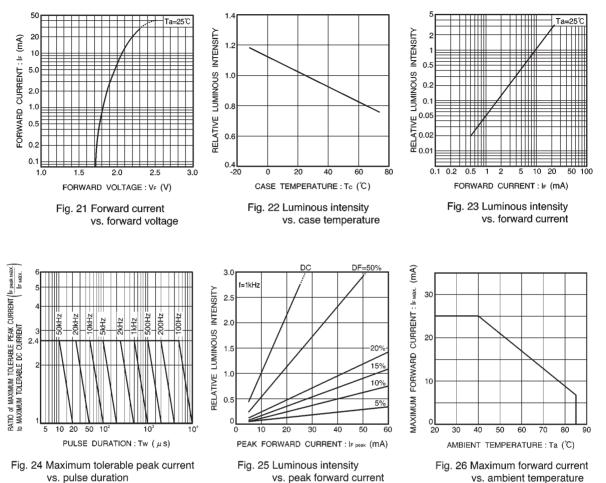
vs. pulse duration



vs. peak forward current

vs. ambient temperature

Electrical characteristic curvers 4 (green)



ROHM