2/3.4V RGB PLCC-4 LED

Order code: **56-3000** MOQ5

Order code: **56-3012** Reel 2000

MPN: OSTA51B1SH

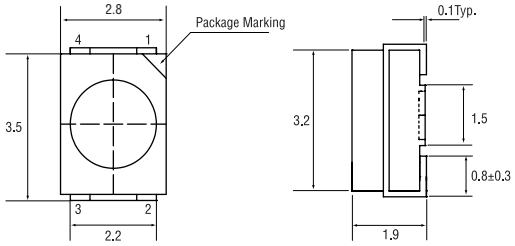
Features:

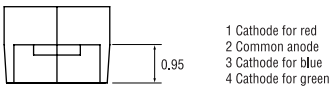
- High power chip LEDs
- 3.5 x 2.8 x 1.9mm Standard directivity
- Superior weather-resistance
- UV resistant epoxy
- RoHS compliant

Applications

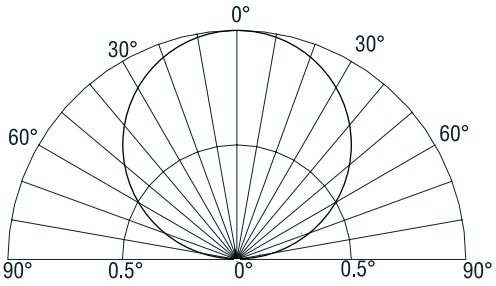
- General purpose indicators
- Small area illuminations
- Back lighting

Outline dimensions:





Directivity:



Absolute maximum rating (Ta=25°C)

Item	Symbol	Value	Unit
DC Forward current	I_F	30	mA
Pulse forward current*	I_{FP}	100	mA
Reverse voltage	V_R	5	V
Power dissipation	P_D	120	mW
Operating temperature	T_{opr}	–30 to +80	°C
Storage temperature	T_{stg}	–30 to +100	°C
Lead soldering temperature	T_{sol}	260°C/3 sec	–

* Pulse width max. 10ms. Duty ratio max. 1/10

Electrical – Optical characteristics (Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward voltage	V_F (R)	I_F=20mA	1.8	2.0	2.4	V
	V_F (B/G)	I_F=20mA	2.8	3.2	4.0	V
DC Reverse current	I_R	V_R=5V	–	–	10	µA
Dominant wavelength	λ_D (Red)	I_F=20mA	620	625	630	nm
	λ_D (Green)	I_F=20mA	520	525	530	nm
	λ_D (Blue)	I_F=20mA	465	470	475	nm
Luminous intensity	I_v (Red)	I_F=20mA	220	330	500	mcd
	I_v (Green)	I_F=20mA	220	330	500	mcd
	I_v (Blue)	I_F=20mA	150	220	330	mcd

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Soldering heat reliability (DIP):

IR Reflow soldering profile:

- Reflow soldering should not be done more than two times
- When soldering, do not put stress on the LEDs during heating
- After soldering do not warp the circuit board
- Repairing should not be done after the LEDs have been soldered.
  When repairing is unavoidable a double-head soldering iron should be used.
  It should be confirmed beforehand whether the characteristics of the LEDs
  will or will not be damaged by repairing