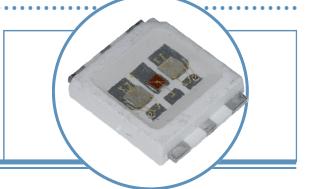
Full-color Power SMD 6mm (130° Viewing Angle)



OVSPRGBCR4

- Surface mount RGB designed for high current drive
- Low thermal resistance-20K/W
- Ultra low profile of 1.5mm
- High flux output

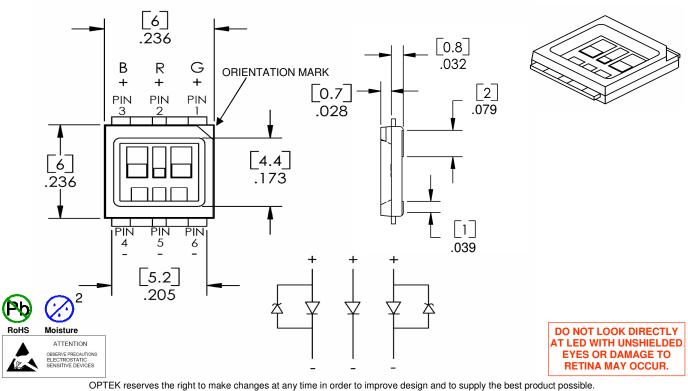


The **OVSPRGBCR4** is an energy-efficient packaged LED source that offers high luminance, and a long operating lifespan. This full-color power device offers a 130° viewing angle and an ultra-low profile (1.5mm) making it highly suitable for conventional lighting and specialized applications. Optional optics are offered to suit application. Please contact OPTEK for more information.

Applications

- Automotive exterior and interior lighting
- Architectural indoor and outdoor lighting
- General lighting
- LED backlighting

Part Number	Viewing Angle	Emitted Color	Typical Luminous Flux (Im)	Typical On-Axis Intensity (cd)	Lens Color	
OVSPRGBCR4	130°	Red	21	7	Water Clear	
		Green	32	11	Water Clear	
		Blue	7.5	2.8	Water Clear	



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Absolute Maximum Ratings T_A = 25 °C

DC Forward Current (per chip)	250mA		
Peak Pulsed Forward Current (per chip) ¹	500mA		
Reverse Voltage	Not designed for reverse bias drive		
Junction Temperature	125 ℃		
Storage and Operating Temperature	-40°~+100 °C		
ESD Threshold (HBM)	2000V		

Notes:

1. Pulse width tp \leq 10µs, Duty cycle = 0.1

2. Thermal resistance = 20K/W

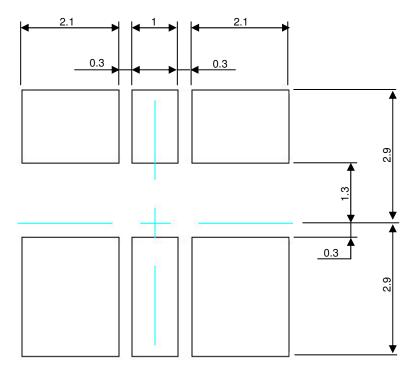
Optical and Electrical Characteristics ($I_F = 250 \text{ mA}, T_A = 25^{\circ} \text{C}$)

SYMBOL	PARAMETER		MIN	ТҮР	MAX	UNITS
VF	Forward Voltage	Red	2.2	2.3	2.5	V
		Green	3.3	3.5	3.6	V
		Blue	3.3	3.5	3.6	V
Φ	Luminous Flux	Red	16	21	27	lm
		Green	26	32	40	lm
		Blue	6	7.5	9	lm
Iv	Luminous Intensity	Red	5600	7150	9000	mcd
		Green	9000	11250	14000	mcd
		Blue	2240	2850	3550	mcd
λ _D	Dominant Wavelength	Red	619		625	nm
		Green	525	530	535	nm
		Blue	460	465	470	nm
2 01/2	50% Power Angle			130		deg



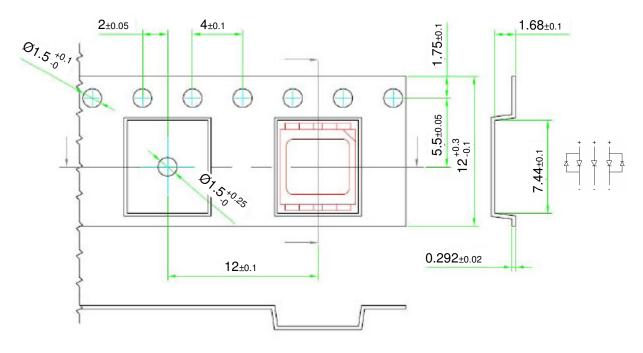
Solder Pad Design

Note: Metal core circuit board (MCPCB) is highly recommended for applications.



Taping and Orientation

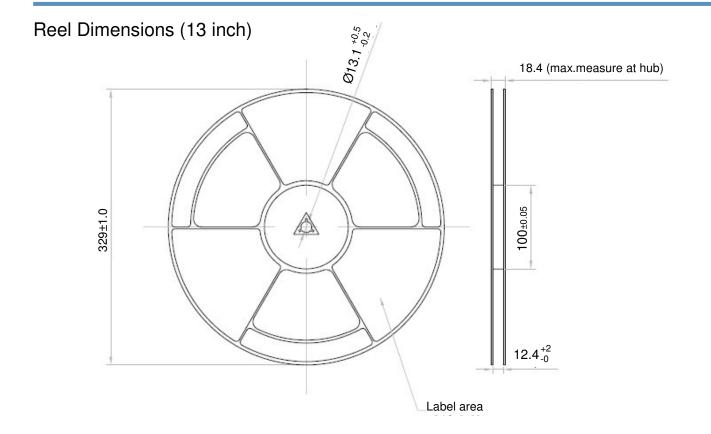
Loaded quantity 1000 pieces per reel



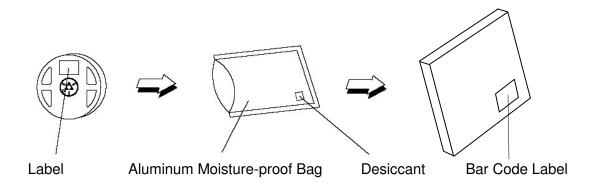
OPTEK reserves the right to make changes at any time in order to improve design and to supply the best product possible.

Full-color Power SMD 6mm OVSPRGBCR4





Moisture Resistant Packaging



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