OVSTRGBB1CR8

Features:

- Full-color red/green/blue
- PLCC package with 6 pins
- Wide viewing angle
- High performance
- Tuneable color mix
- 120°viewing angle

Description:

The **OVSTRGBB1CR8** package design provides wide viewing angle, low power consumption, and high luminous intensity. Color on demand is made possible by isolated chip circuits, allowing each LED to be driven individually or in tunable color combinations.

Applications:

- Amusement equipment
- Information boards
- Automotive interior lighting
- Portable appliances
- Indoor and outdoor displays
- Backlighting
- RGB full-color displays

Dout Number			Long Color		
Part Number	Туре	Material	Emitted Color	Intensity Typ. mcd	Lens Color
	R	AlInGaP	Red	700	
OVSTRGBB1CR8	G	InGaN	Green	1800	Diffused
	В	InGaN	Blue	400	

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General Note

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Electrical Specifications

Absolute Maximum Ratings $T_A = 25^{\circ}$ C unless otherwise noted

PARAMETER					
PARAIVIETER	R	G	В	UNIT	
Storage Temperature		°C			
Operating Temperature		-40 ~ +100			
Reverse Voltage		5			
Continuous Forward Current (1 chip on)	50	50	50	mA	
Peak Forward Current (10% Duty Cycle, PW \leq 100 μ sec, 1 chip on)	200	100	100	mA	
Power Dissipation	130	200	200	mW	
Junction Temperature	110	110	110	°C	
Junction/ambient (1 chip on)	450	400	450	°C/W	
Junction/ambient (3 chips on)	650	580	680	°C/W	
Junction/solder point (1 chip on)	300	280	300	°C/W	
Junction/solder point (3 chips on)	450	430	480	°C/W	
Electrostatic Discharge Classification (JEDEC-JESD22-A114F)					
Moisture Sensitivity Level (IPC/JEDEC J-STD-020C)					

Electrical Characteristics T_A = 25° C unless otherwise noted

SYMBOL	PARAMETER	VALUES					CONDITIONS
STIVIBUL	PARAIVIETER		R	G	В	UNIT	CONDITIONS
Iv		Min	560	1120	280	mcd	I _F = 50 mA
	Luminous Intensity	Avg	700	1600	400		
V _F	Forward Voltage	Avg	2.0	3.2	3.2	V	I _F = 50 mA
		Max	2.6	4.0	4.0		
I _R	Reverse Current (max)		10	10	10	μΑ	V _R = 5 V
λ_{D}	Dominant Wavelength		619-624	520-540	460-480	nm	I _F = 50 mA
λ_{P}	Wavelength at Peak Emission		630	527	470	nm	I _F = 50 mA
2 0½	Beam Angle		120	120	120	deg	I _F = 50 mA
Δλ	Spectral Radiation Bandwidth		24	38	28	nm	I _F = 50 mA

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

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Typical Electro-Optical Characteristics Curves



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Typical Electro-Optical Characteristics Curves





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Reel Dimensions: 7-inch reel



Carrier Tape Dimensions: Loaded quantity 900 pieces per reel



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