OVSTRGBB1CR8



Features:

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



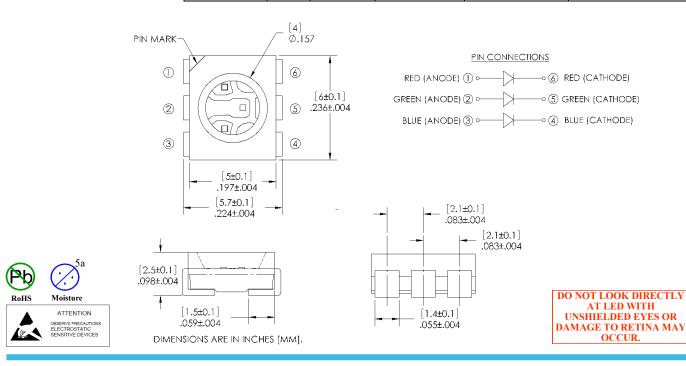
Description:

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

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





TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

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OVSARGB4R8



Electrical Specifications

Absolute Maximum Ratings T_A = 25° C unless otherwise noted

DADAMETED					
PARAMETER	R	G	В	UNIT	
Storage Temperature		-40 ~ +100			
Operating Temperature		-40 ~ +100			
Reverse Voltage		5			
Continuous Forward Current (1 chip on)	50	50	50	mA	
Peak Forward Current (10% Duty Cycle, PW ≤ 100 μsec, 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				LINIT	CONDITIONS
STIVIBUL	PARAIVIETER		R	G	В	UNIT	CONDITIONS
I _V	Luncia que lebenesia.	Min	560	1120	280	mcd	I _F = 50 mA
	Luminous Intensity	Avg	700	1600	400		
V _F	Converd Voltage	Avg	2.0	3.2	3.2	V	I _F = 50 mA
	Forward Voltage	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 Θ½	Beam Angle		120	120	120	deg	I _F = 50 mA
Δλ	Spectral Radiation Bandwidth		24	38	28	nm	I _F = 50 mA

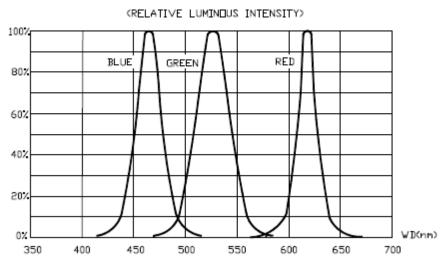
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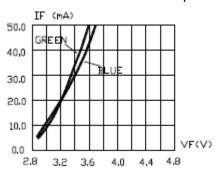
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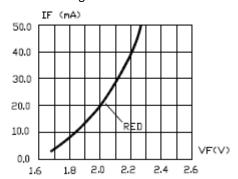


Typical Electro-Optical Characteristics Curves

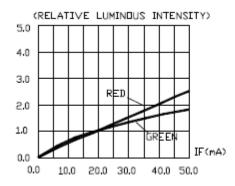


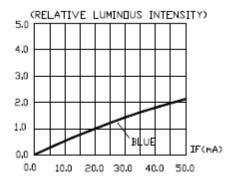
Relative Intensity vs Dominant Wavelength





Forward Current vs Forward Voltage





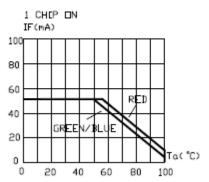
Relative Luminous Intensity vs Forward Current

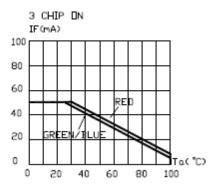
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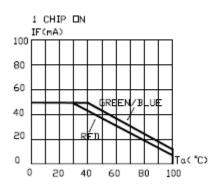


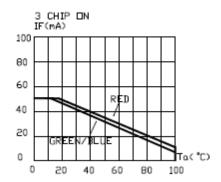
Typical Electro-Optical Characteristics Curves





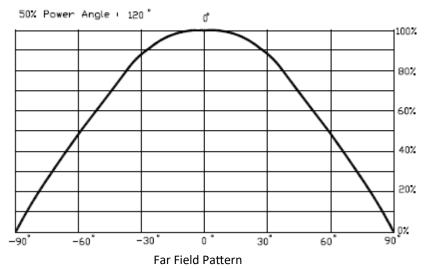
Maximum Forward DC Current vs Solder Point Temperature





Maximum Forward DC Current vs Ambient Temperature

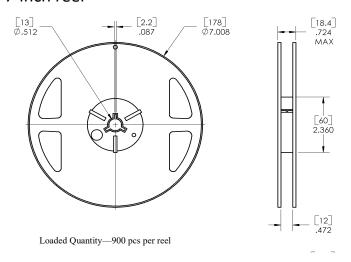
(RELATIVE LUMINOUS INTENSITY)



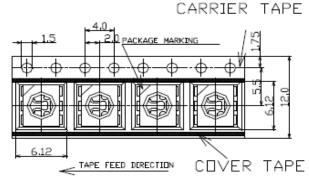
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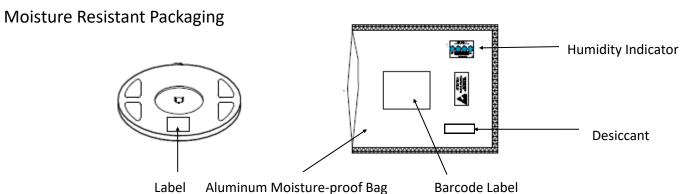


Reel Dimensions: 7-inch reel



Carrier Tape Dimensions: Loaded quantity 900 pieces per reel





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