

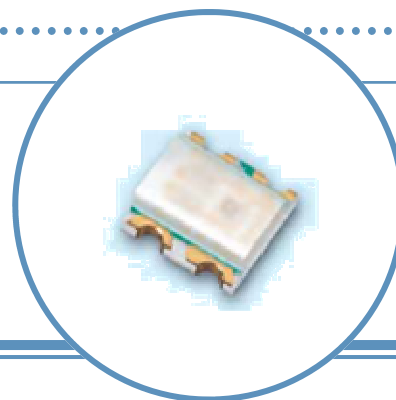
Full Color .35mm Height Chip LED

[查询"OVSTKGBBCR9"供应商](#)



OVSTKGBBCR9

- Surface mount device packaged in 8 mm tape on 7" diameter reel
- Compatible with automatic placement equipment
- Compatible with infrared and vapor phase reflow solder process
- Low profile, full-color device
- Pb-free
- Dimensions: 1.6 x 1.6 x 0.35 mm

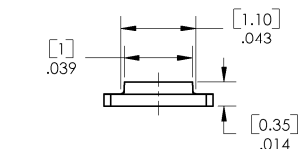
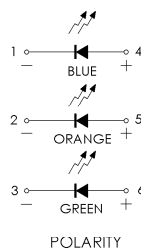
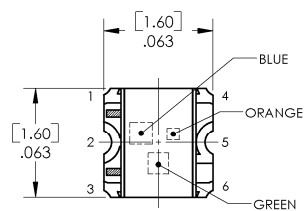


The **OVSTKGBBCR9** is a full-color .35 mm height chip LED that is much smaller than lead frame-type components and enables smaller board size, higher packing density, reduced storage space, and smaller equipment to be obtained. This low-profile, multi-color plus white device is ideal for miniature applications.

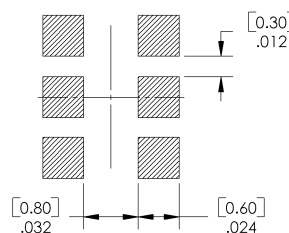
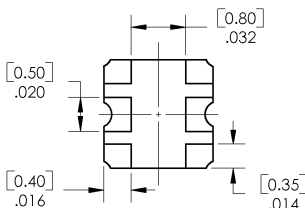
Applications

- Automotive (backlighting in dashboard and switch)
- Telecommunications (indicator and backlighting in telephone and fax)
- Flat backlight (LCDs, membrane switches and symbols)
- Personal/portable appliances (mobile phones, pagers, audio/video players and GPS)

Part Number	Chip			Lens Color
	Type	Material	Emitted Color	
OVSTKGBBCR9	K	AlInGaN	Yellow-Orange 605 nm	Water Clear
	G	InGaN	Green 525nm	
	B	InGaN	Blue 470nm	



FOR REFLOW SOLDERING PURPOSES



DIMENSIONS ARE IN INCHES AND [MILLIMETERS].

**DO NOT LOOK DIRECTLY
AT LED WITH UNSHIELDED
EYES OR DAMAGE TO
RETINA MAY OCCUR.**



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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OVSTKGBBCR9



Absolute Maximum Ratings

T_A = 25° C unless otherwise noted

Reverse Voltage	5 V
Forward Current	K:25 mA G:25 mA B:25 mA
Operating Temperature	-40 ~ +85° C
Storage Temperature	-40 ~ +90° C
Soldering Temperature	260° C (for 5 seconds)
Electrostatic Discharge	K:2000 V G:150 V B:150 V
Power Dissipation	K:60 mW G:110 mW B:110 mW
Peak Forward Current (Duty 1/10 @ 1KHz)	K:60 mA G:100 mA B:100 mA

Electrical Characteristics

T_A = 25° C unless otherwise noted

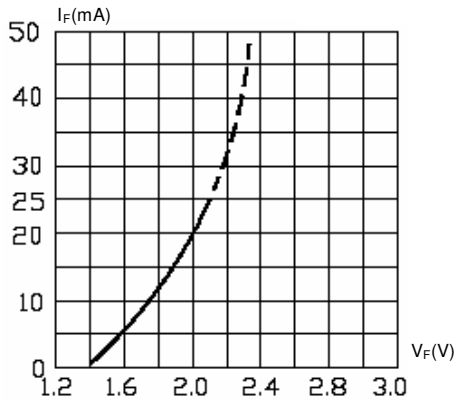
SYMBOL	PARAMETER		MIN	TYP	MAX	UNITS	CONDITIONS
I _v	Luminous Intensity	K	72	100	----	mcd	I _F = 20 mA
		G	112	180	----		
		B	28.5	50	----		
2θ _{1/2}	Viewing Angle		----	120	----	deg	I _F = 20 mA
λ _p	Peak Wavelength	K	----	611	----	nm	I _F = 20 mA
		G	----	518	----		
		B	----	468	----		
λ _d	Dominant Wavelength	K	----	605	----	nm	I _F = 20 mA
		G	----	525	----		
		B	----	470	----		
Δλ	Spectral Bandwidth	K	----	17	----	nm	I _F = 20 mA
		G	----	35	----		
		B	----	35	----		
V _F	Forward Voltage	K	----	2.0	2.4	V	I _F = 20 mA
		G	----	3.3	3.9		
		B	----	3.3	3.9		
I _R	Reverse Current	K	----	----	10	μA	V _R = 5 V
		G	----	----	50		
		B	----	----	50		

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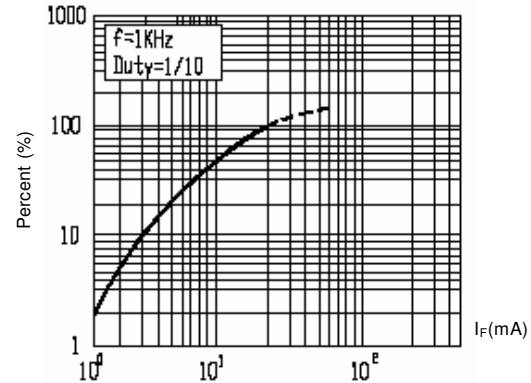
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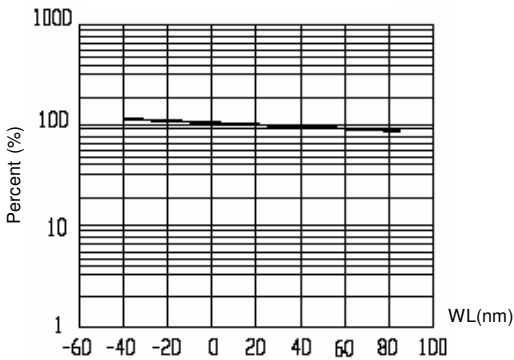
Typical Electro-Optical Characteristics Curves – K (Yellow-Orange)



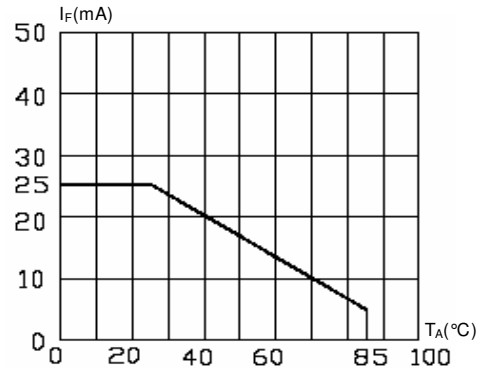
Forward Current vs Forward Voltage



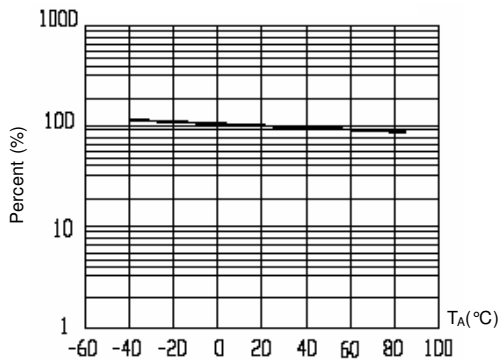
Relative Luminous Intensity vs Forward Current



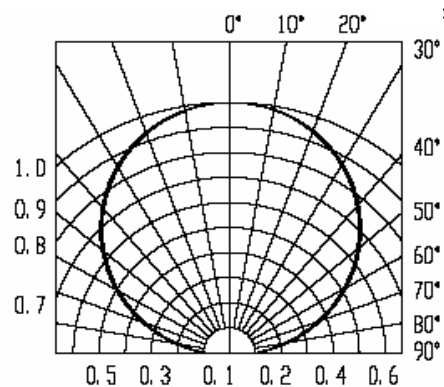
Relative Luminous Intensity vs Wavelength



Forward Current vs Ambient Temperature



Relative Luminous Intensity vs Ambient Temperature



Radiation

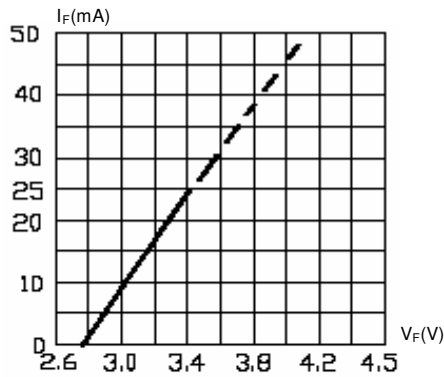
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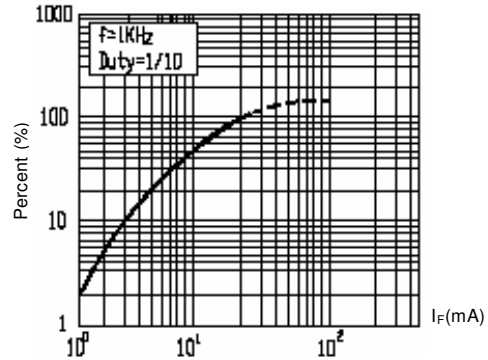
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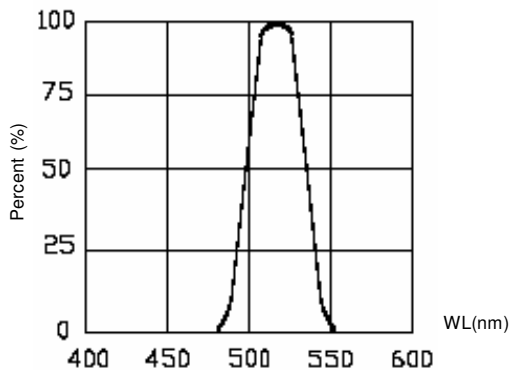
Typical Electro-Optical Characteristics Curves – G (Green)



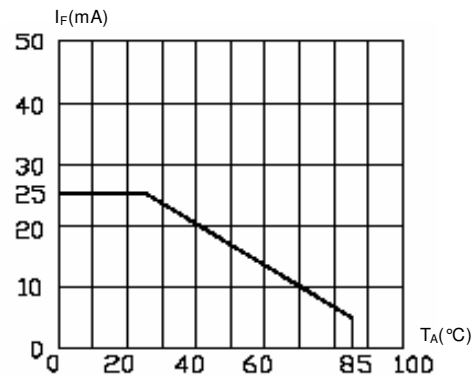
Forward Current vs Forward Voltage



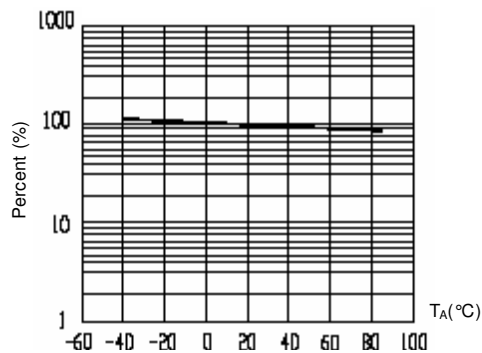
Relative Luminous Intensity vs Forward Current



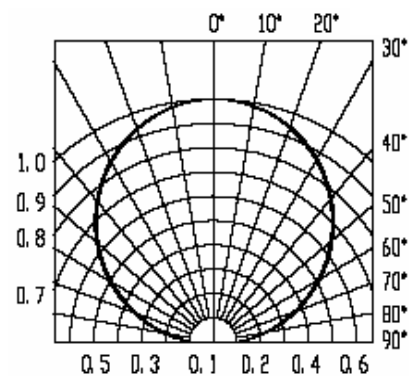
Relative Luminous Intensity vs Wavelength



Forward Current vs Ambient Temperature



Relative Luminous Intensity vs Ambient Temperature



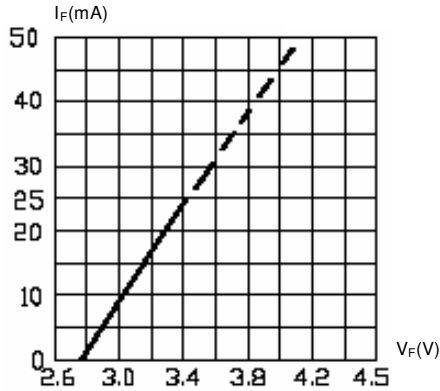
Radiation

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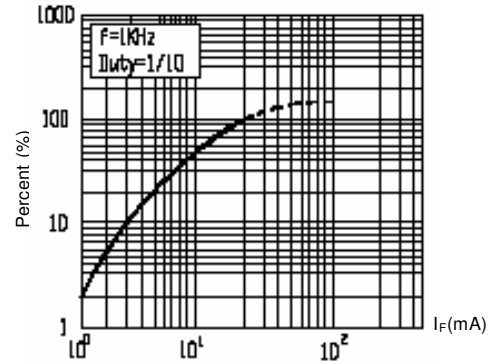
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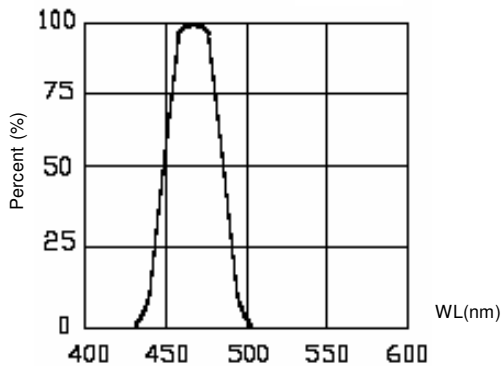
Typical Electro-Optical Characteristics Curves – B (Blue)



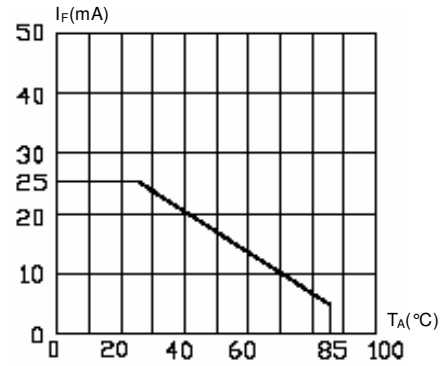
Forward Current vs Forward Voltage



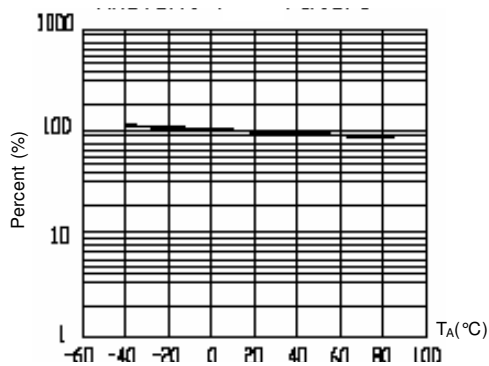
Relative Luminous Intensity vs Forward Current



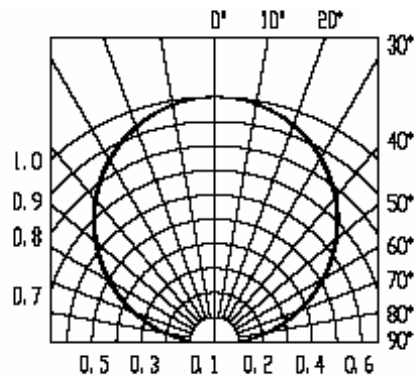
Relative Luminous Intensity vs Wavelength



Forward Current vs Ambient Temperature



Relative Luminous Intensity vs Ambient Temperature



Radiation

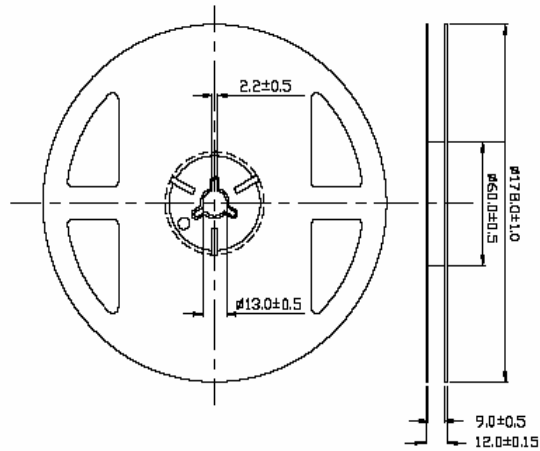
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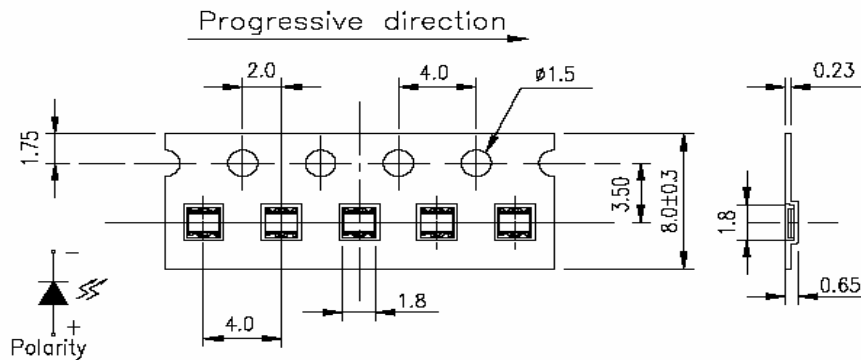
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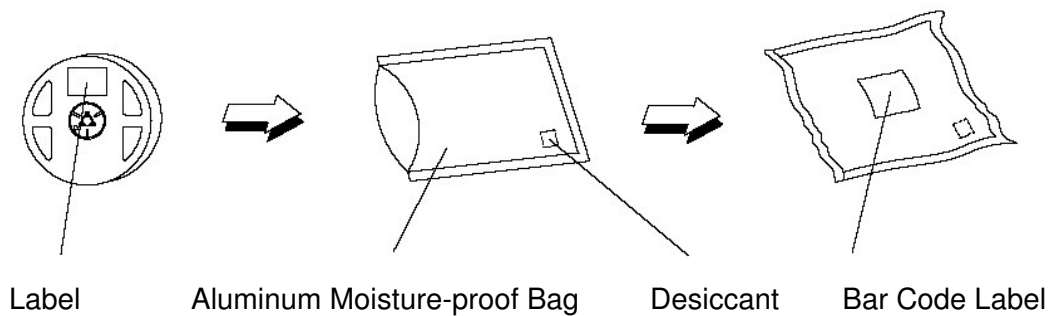
Reel Dimensions: 7-inch reel



Carrier Tape Dimensions: Loaded quantity 2000 pieces per reel



Moisture Resistant Packaging



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