

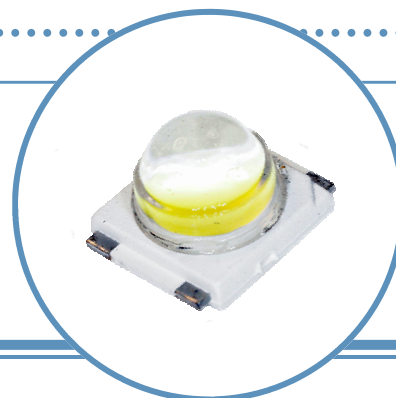
.5-Watt SMD 6x6mm

40° Viewing Angle

查询"OVS5R4CR44"供应商

OVS5x4CR44 Series

- High brightness surface mount LED
- Low thermal resistance
- Exceptional spatial uniformity
- Optional optics to suit application

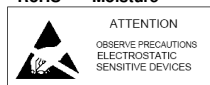
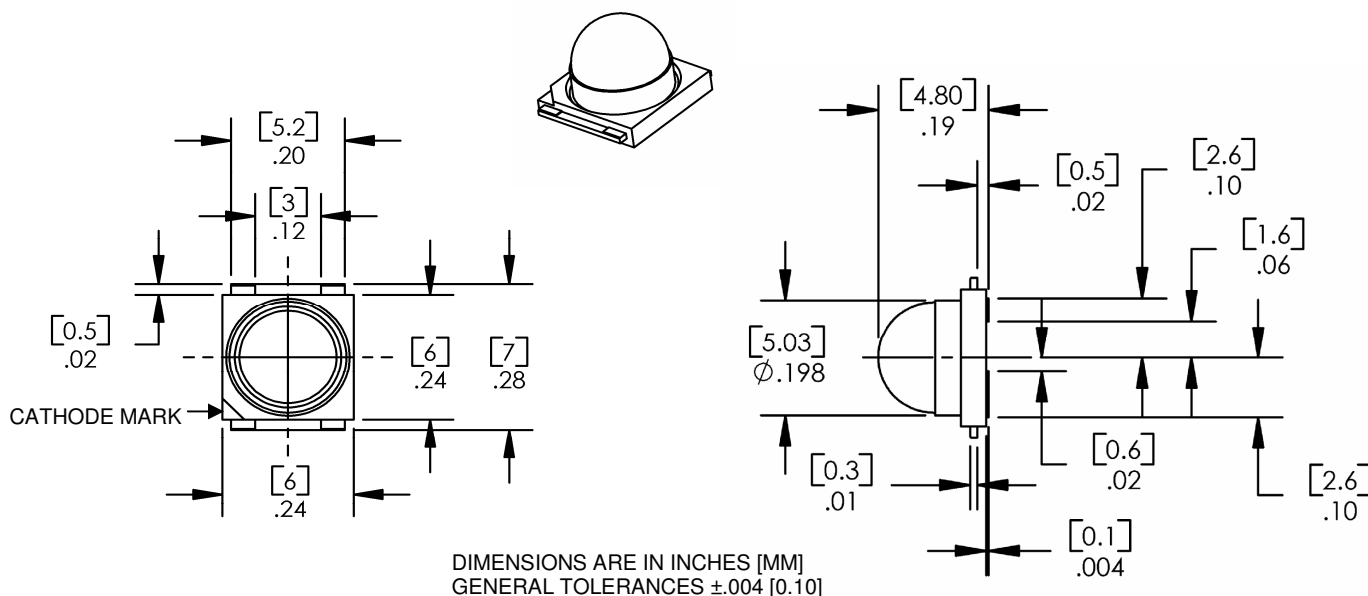


The **OVS5x Series** features energy-efficient packaged LEDs that offer high luminance, and a long operating lifespan. This domed lens package has a 40° viewing angle providing focused emission patterns from a surface mount device. Optional optics are offered to suit application. Please contact OPTEK for more information.

Applications

- Automotive exterior and interior lighting
- Architectural indoor and outdoor lighting
- General lighting
- Electronic signs and signals

Part Number	Viewing Angle	Emitted Color	Typical Luminous Flux (lm)	Typical On-Axis Intensity (cd)	Lens
OVS5R4CR44	40°	Red	8	9	Water Clear/Dome
OVS5Y4CR44	40°	Yellow	11	14	Water Clear/Dome



**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.

.5-Watt SMD 6X6mm

OV554CR44 Series

Absolute Maximum Ratings $T_A = 25^\circ\text{C}$

DC Forward Current	175mA
Peak Pulsed Forward Current ¹	500mA
Reverse Voltage	15V
Junction Temperature ²	125°C
Power Dissipation	525mW
Storage and Operating Temperature	-40° ~ +100 °C
ESD Threshold (HBM)	2000V

Notes:

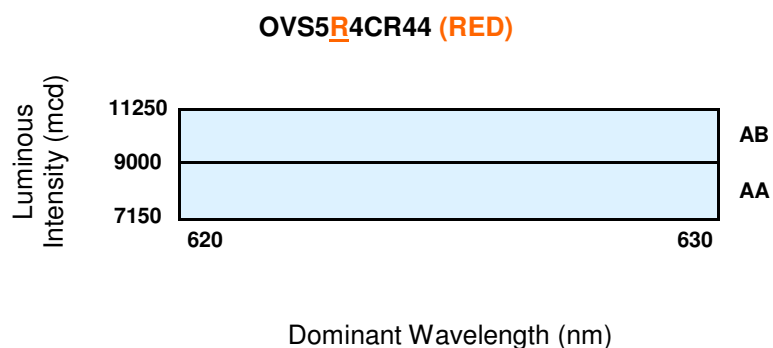
1. Pulse width $t_p \leq 10\mu\text{s}$, Duty cycle = 0.1
2. Thermal conductivity = 20K/W

Optical and Electrical Characteristics ($I_F = 175\text{mA}$, $T_A = 25^\circ\text{C}$)

SYMBOL	PARAMETER		MIN	TYP	MAX	UNITS
V_F	Forward Voltage		----	2.2	2.8	V
Φ	Luminous Flux	Red	----	8	----	lm
		Yellow	----	11	----	lm
I_V	Luminous Intensity	Red	7150	9000	11250	cd
		Yellow	11250	14000	18000	cd
I_R	Reverse Current at 15V		----	100	----	μA
$2\theta_{1/2}$	50% Power Angle		----	40	----	deg

Standard Bins ($I_F = 175\text{mA}$)

Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) shown. Orders may be filled with any or all bins contained as below.



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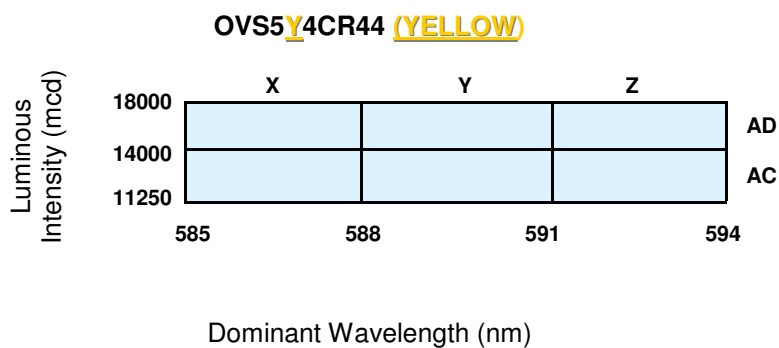
.5-Watt SMD 6X6mm

查询"OV55B4CR44"供应商

OV55X4CR44 Series

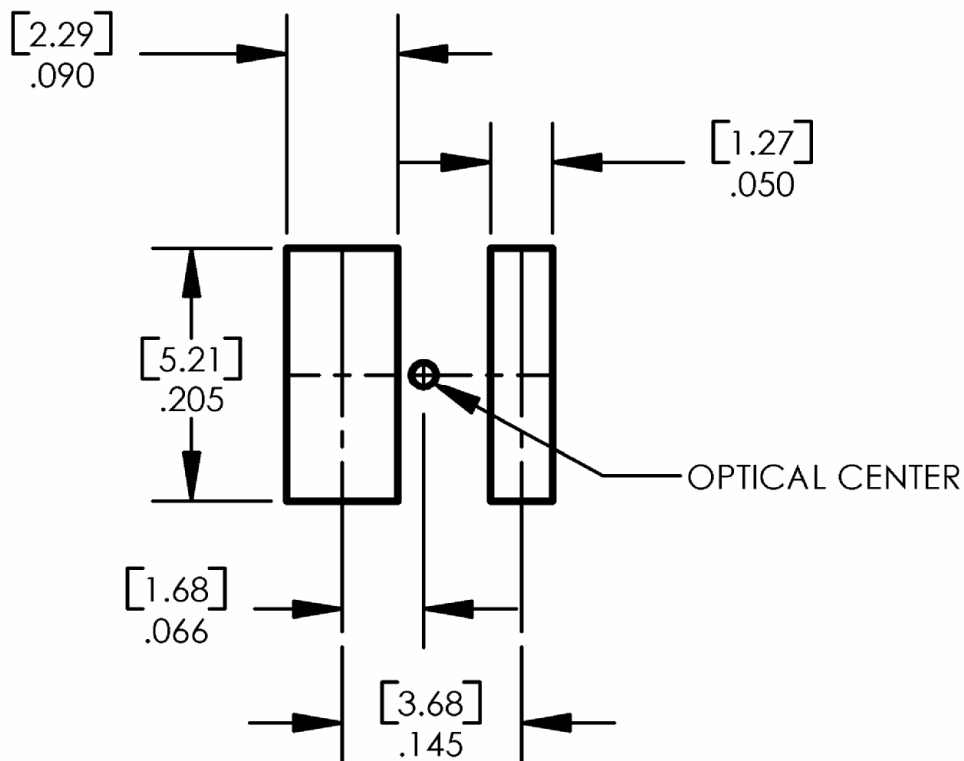
Standard Bins ($I_F = 175 \text{ mA}$)

Lamps are sorted to luminous intensity (I_V) and dominant wavelength (λ_D) shown. Orders may be filled with any or all bins contained as below.



Solder Pad Design

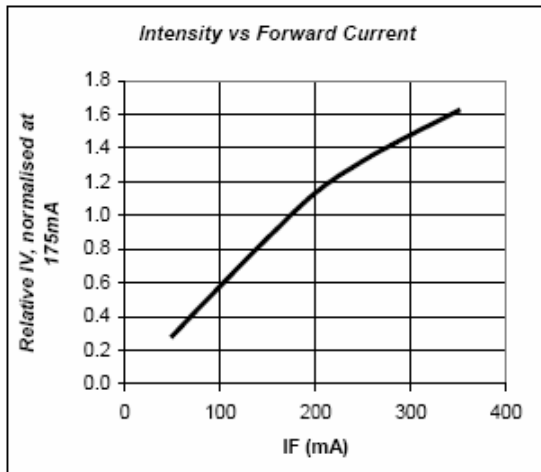
Note: Metal core circuit board (MCPCB) is highly recommended for high density applications.



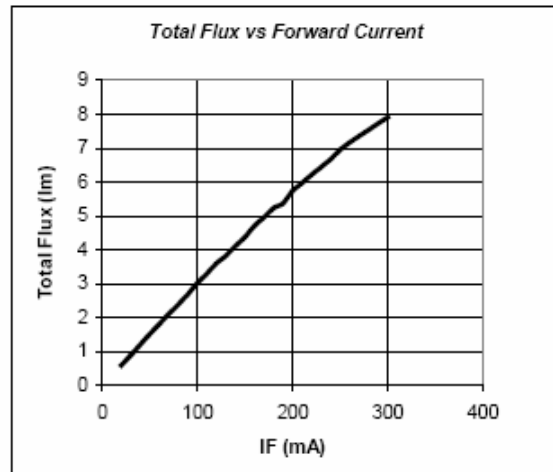
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Typical Electro-Optical Characteristics Curves

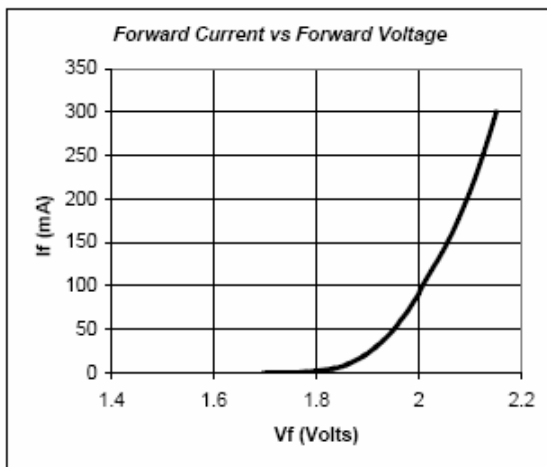
Relative Intensity vs. Forward Current



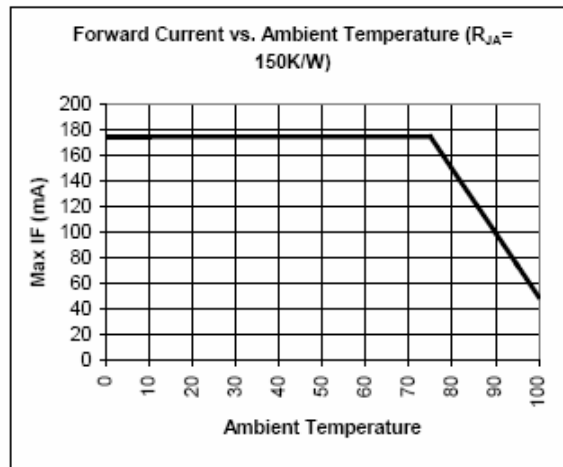
Flux vs. Forward Current



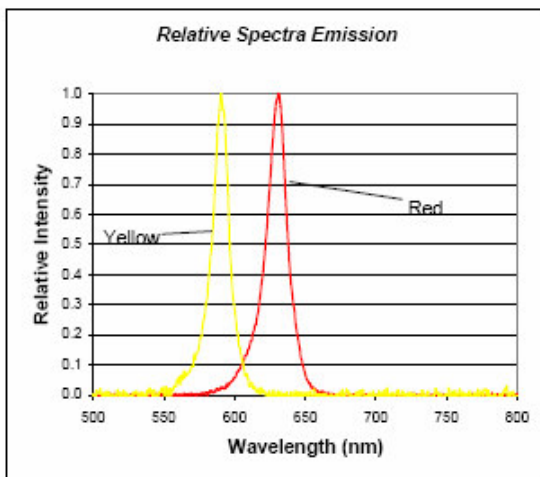
Forward Current vs. Forward Voltage



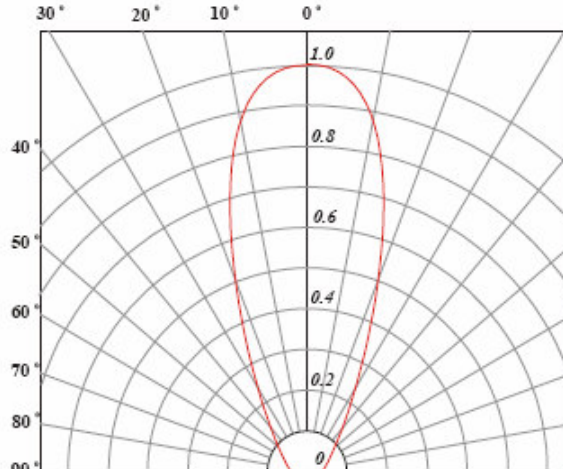
Max Forward Current vs. Ambient Temperature.



Relative Intensity vs. Wavelength

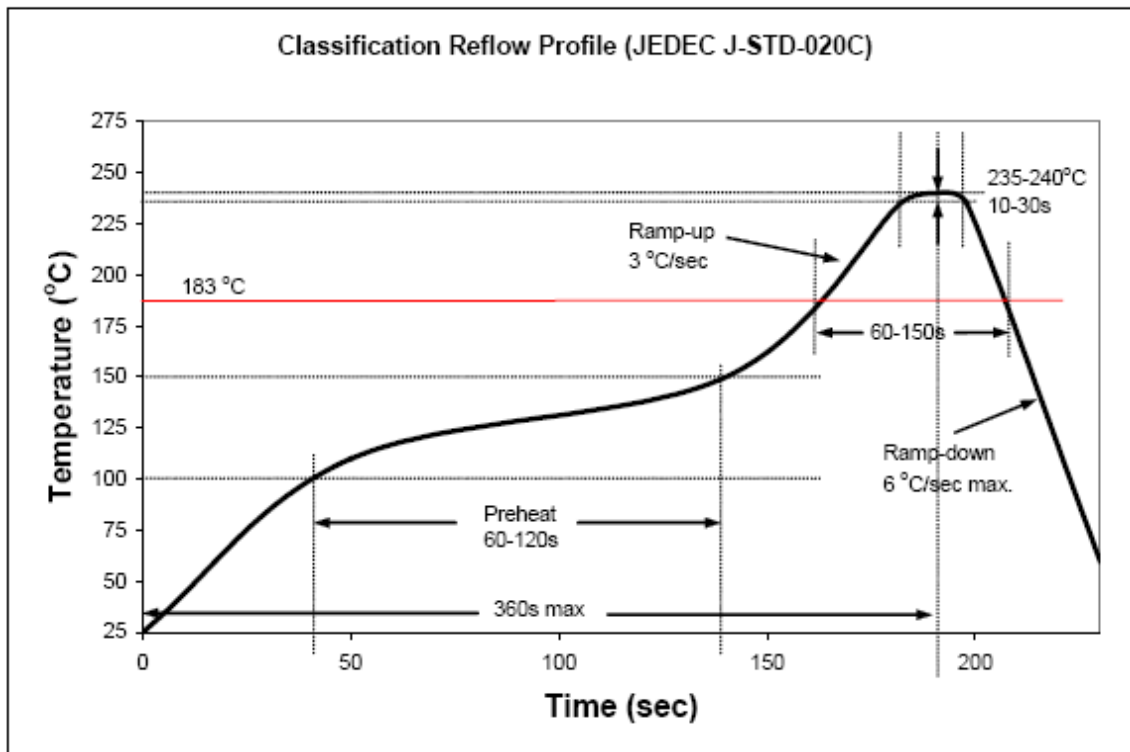


Radiation Pattern.

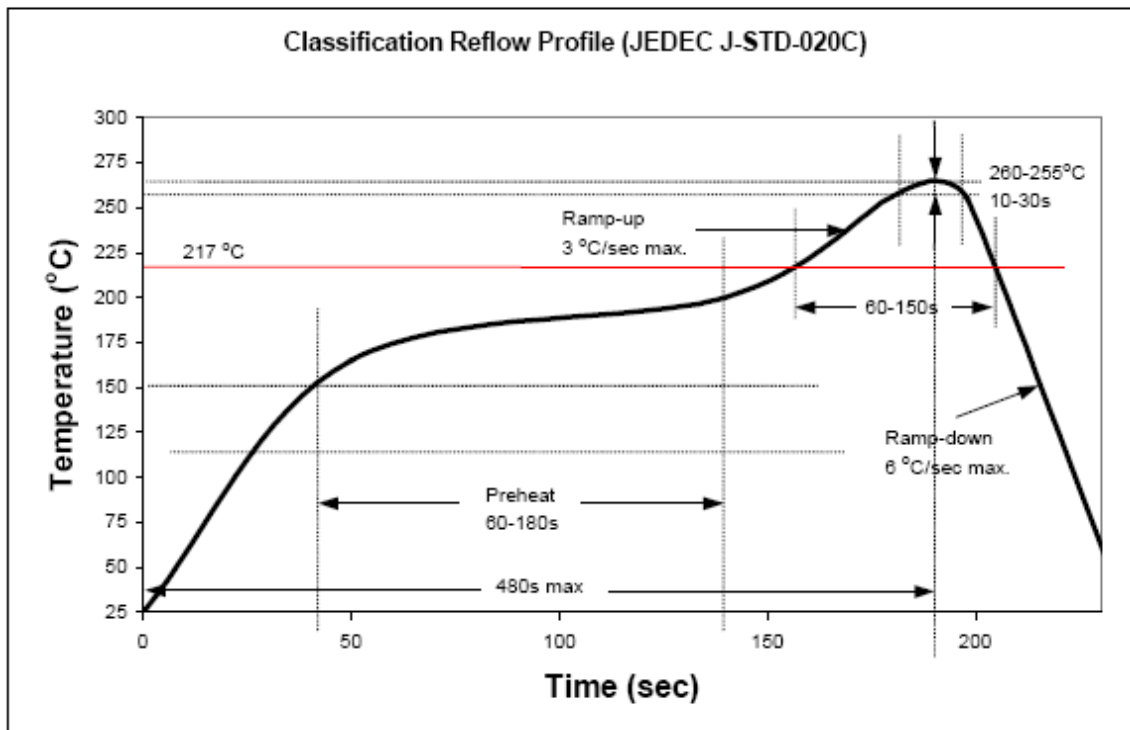


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Recommended Sn-Pb IR-Reflow Soldering Profile.



Recommended Pb Free IR-Reflow Soldering Profile.



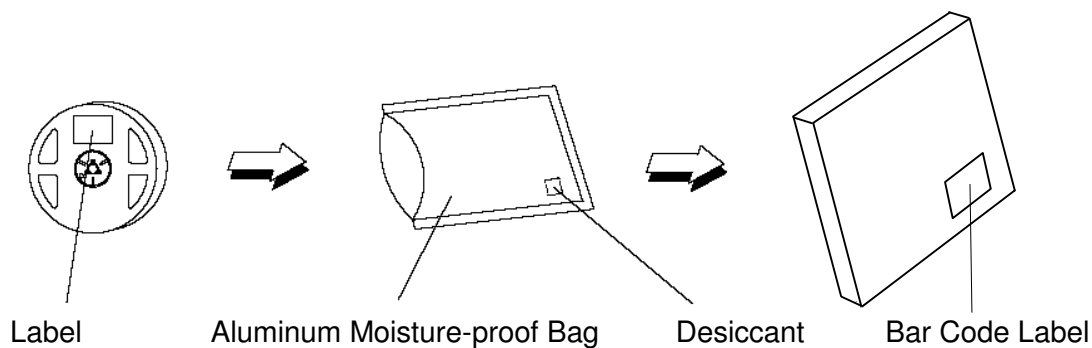
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OV55X4CR44 Series

.5-Watt SMD 6X6mm

查询"OV85B4CR44"供应商
OV85X4CR44 Series

Moisture Resistant Packaging



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