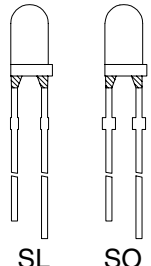


- Features**
- Produced with steel leadframe
 - Supplied with standard leads (**SL**)
 - Supplied with lead stand off (**SO**)
 - Class II ESD Rating
 - Water clear epoxy
 - Products bin coded for hue
 - Advanced optical-grade epoxy for superior high temperature and high moisture resistance performance


Electro / Optical Characteristics $I_F = 20 \text{ mA}$ $T_a = 25^\circ \text{ C}$

Lamp Package	LED Part Number	Emitting Colour	Leads	Die Material	Colour Temperature Range	Forward Voltage V_F		Luminous Intensity I_V		Viewing \angle $2\theta_{1/2}$	
						typical	max	min	max		
 SL SO 3.0 mm	FCCL-R325CWWCSL	White	Std	InGaN/SiC	W1 to W3	3.40	4.00	3000	12000	25	
	FCCL-R325CWWCSO	White	Stand off	InGaN/SiC	W1 to W3	3.40	4.00	3000	12000	25	
	Units				See below	V		mcd		deg	
	Colour Temperature Range Limits	W1		W2		W3					
		14286	100000	9091	14286	6667	9091				
3.0 mm	Units	K									

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

Characteristic	Condition	Symbol	Rating	Units
Pulse Forward Current	Pulse width $\leq 0.1 \text{ msec}$, duty $\leq 1/10$	I_{FP}	100	mA
DC Forward Current		I_F	25	mA
Reverse Voltage	$I_R = 100 \mu\text{A}$	V_R	5	V
Power Dissipation		P_D	100	mW
Operating Temperature		T_{opr}	- 40 to + 95	$^\circ \text{C}$
Storage Temperature		T_{stg}	- 40 to + 100	$^\circ \text{C}$
Lead soldering temperature	3.0 mm from body - max 3 seconds		260	$^\circ \text{C}$

WARNING



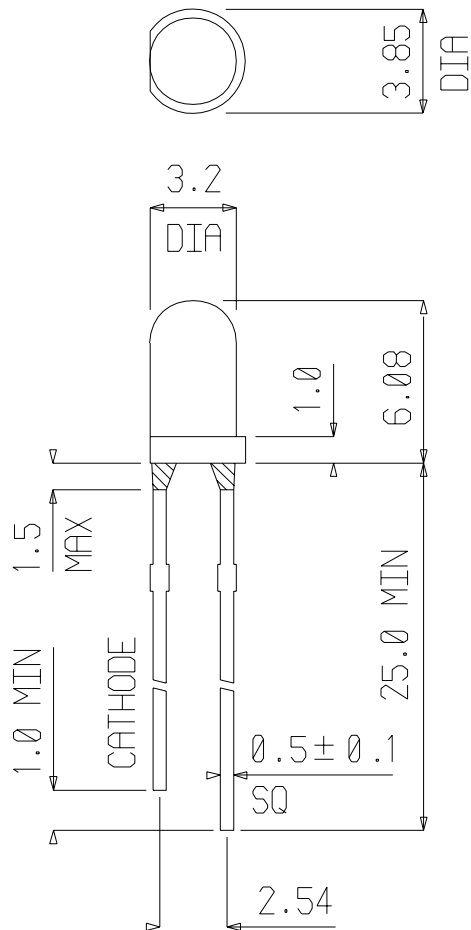
This range of LEDs is produced with die having a high radiant flux. Care must be taken when viewing the product at close range as the light may be intense enough to cause damage to the human eye.

Note: Industry standard procedures regarding static must be observed when handling this product.

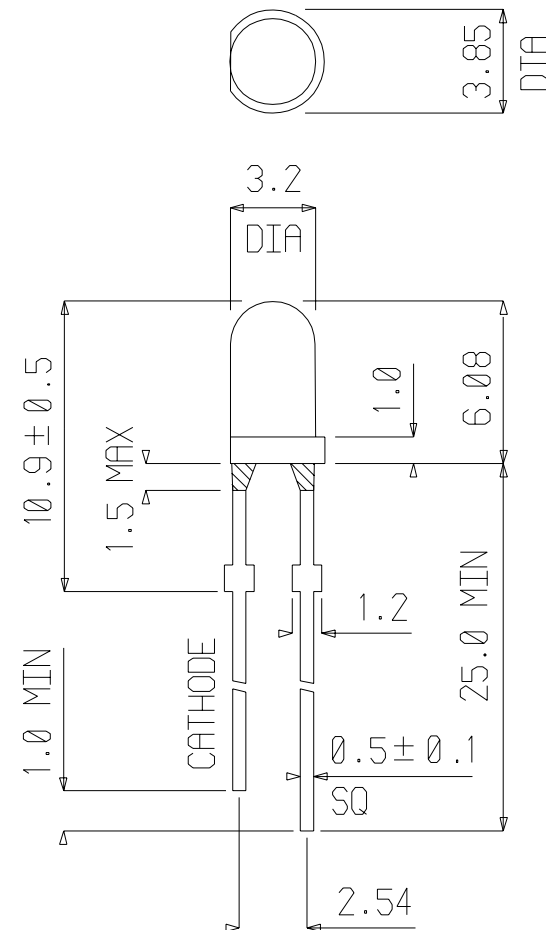
It is the responsibility of the customer to verify the suitability of the product for the application.

Package Outlines

Standard Leads

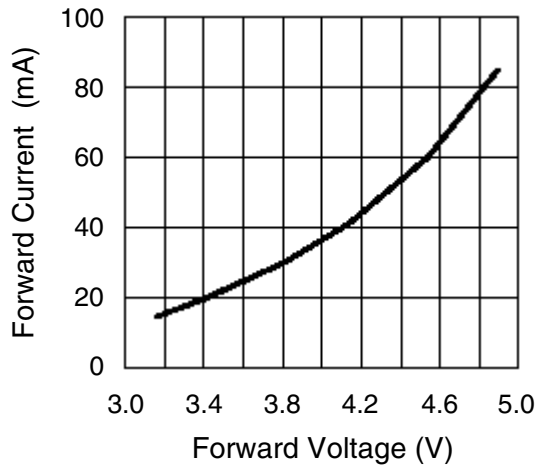


Leads with stand off

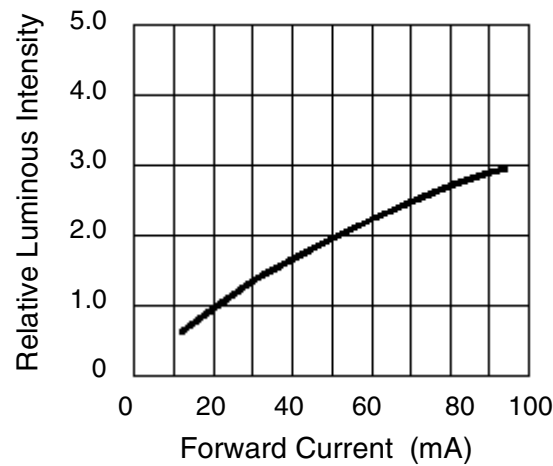


Dimensions in mm Tolerance ± 0.25 mm unless stated

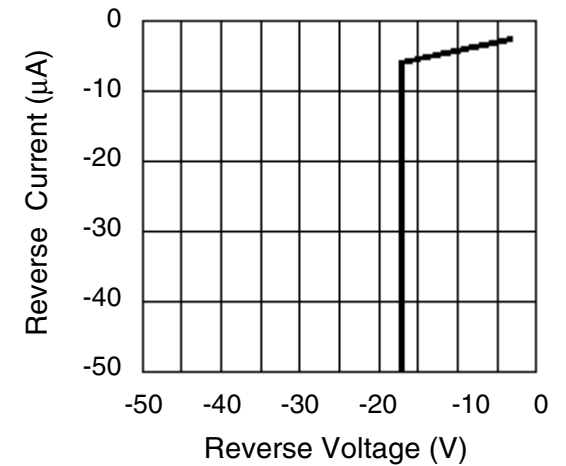
Forward Current Vs Forward Voltage



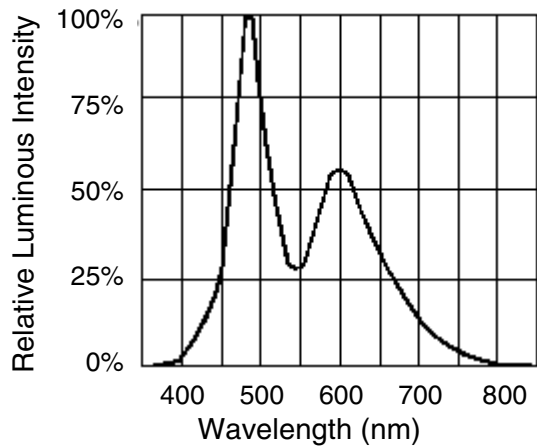
Relative Luminous Intensity Vs Forward Current



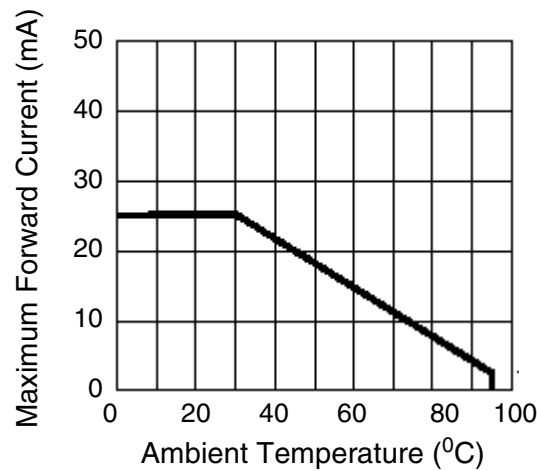
Reverse Current Vs Reverse Voltage



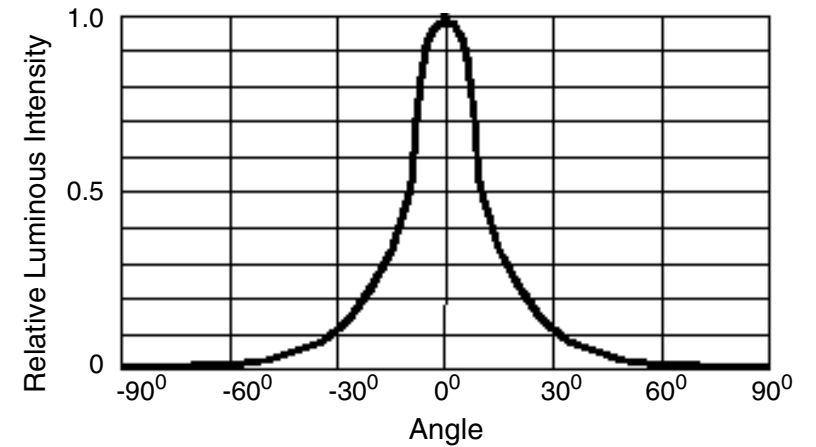
Relative Luminous Intensity Vs Wavelength



Maximum Forward DC Current Vs Ambient Temperature (T_j max=105°C)



Far Field Pattern 50% Power Angle: 25°



Colour Bin Limit $I_F = 20 \text{ mA}$

Bin Code	Sub-bin	x	y	Bin Code	Sub-bin	x	y
W1	Wa	0.2545	0.2480	W2 (Cont)	Wg	0.2735	0.2860
		0.2633	0.2410			0.2830	0.3050
		0.2545	0.2245			0.2895	0.2905
		0.2450	0.2290			0.2808	0.2740
	Wb	0.2633	0.2410		Wh	0.2808	0.2740
		0.2720	0.2340			0.2895	0.2905
		0.2640	0.2200			0.2960	0.2760
		0.2545	0.2245			0.2880	0.2620
	Wc	0.2545	0.2480		Wj	0.2830	0.3050
		0.2640	0.2670			0.2950	0.3210
		0.2720	0.2575			0.2998	0.3028
		0.2633	0.2410			0.2895	0.2905
	Wd	0.2633	0.2410	Wk	0.2895	0.2905	
		0.2720	0.2575		0.2998	0.3028	
		0.2800	0.2480		0.3045	0.2865	
		0.2720	0.2340		0.2960	0.2760	
W2	We	0.2640	0.2670	W3	Wm	0.2950	0.3210
		0.2735	0.2860			0.3070	0.3370
		0.2808	0.2740			0.3100	0.3150
		0.2720	0.2575			0.2998	0.3028
	Wf	0.2720	0.2575		Wn	0.2998	0.3028
		0.2808	0.2740			0.3100	0.3150
		0.2880	0.2620			0.3130	0.2970
		0.2800	0.2480			0.3045	0.2865

Measurement Tolerance of colour coordinates ± 0.01

Intensity Bin Limit $I_F = 20 \text{ mA}$

Bin Code	Min. (mcd)	Max. (mcd)
W0	3000	4180
X0	4180	5860
Y0	5860	8200
Z0	8200	12000

Tolerance of measurement of luminous intensity is $\pm 15\%$

