



Datasheet No.154 SMD LED KLSL2835W 0.2W 60mA

Features:

- Popular 2835W Package with Thermal pad
- Wide Viewing angle
- Suitable for Reflow Solder Process & SMT Assembly
- Available on Tape and Reel
- RoHS compliant (RoHS)

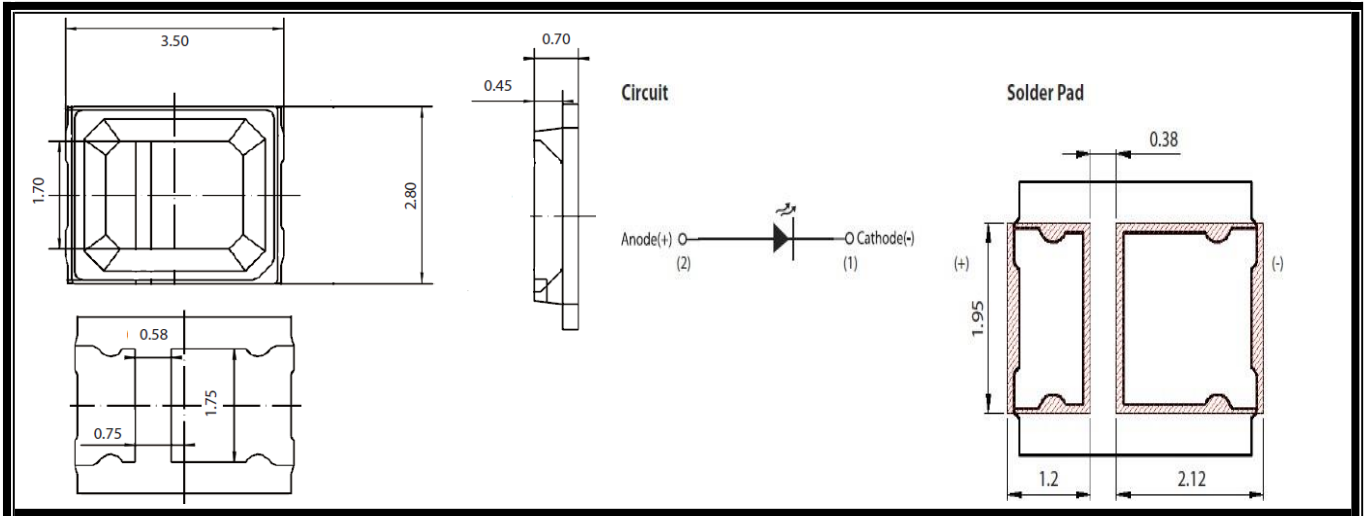


Description:

The LEDchip Indus LED-KLSL2835W 3V 0.2W is ideal for all lighting applications This package has high efficiency, low power consumption, wide viewing angle and ideal power factor.

Applications:

- Indore
- Entertainment & Decorative Lighting



Luminous Flux Characteristic

Lumens bin	Min. Luminous flux (Lm)	Max. Luminous flux (Lm)	Forward Current (mA)
24-26	24	26	60mA
26-28	26	28	
28-30*	28	30	
30-32	30	32	

Note:

- *Scintilla Series gives high Lumens 2835W LEDs at same price
- The Luminous Flux performance is guaranteed with in prescribed operating conditions
- LEDchip Indus Pvt Ltd maintains the following tolerances $\pm 10\%$ on Flux, $\pm 2\%$ for CRI

Correlated Color Temperature (CCT)

White	Warm White	High CCT 11000K-12000K	Warm White	Natural White
W1 5700-6000K	W4 7000-7500K	W11 11000K-12000K	T1 2700-2900K	S1 3700-3900K
W2 6000-6500K	W5 7500-8000K	-	T2 2900-3000K	S2 3900-4000K
W3 6500-7000K	W6 8000-8500K	-	T3 3000-3300K	S3 4000-4300K
W4 7000-7500K	-	-	-	-
W5 7500-8000K	-	-	-	-
W6 8000-8500K	-	-	-	-

Note: Higher CCT available on request.

Voltage Bin Structure

Group	Min.Voltage (V)	Max. Voltage (V)
V1A-V1B	2.8	2.8-2.9-3.0
V2A-V2B	3.0	3.0-3.1-3.2
V3A-V3B	3.2	3.2-3.3-3.4

Characteristics at 60mA Test Current

Parameter	Symbol	Value	Units
Viewing Angle (TYP)	$2\alpha_{12}$	120	Degree
Thermal resistance	-R _t	30	°C/W
CRI	R _a	>80	-
Lumens *	ϕ_v	24-26-28-32	Lumens
Color Correlated Temperature CCT *	CCT	1700-13000	K

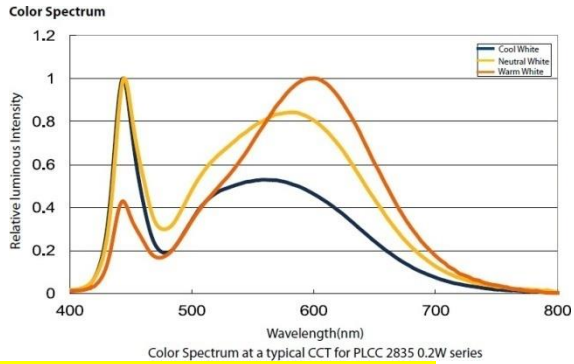
* -please specify your range value for IV & CCT

Absolute Maximum Ratings (Ta=25oC)

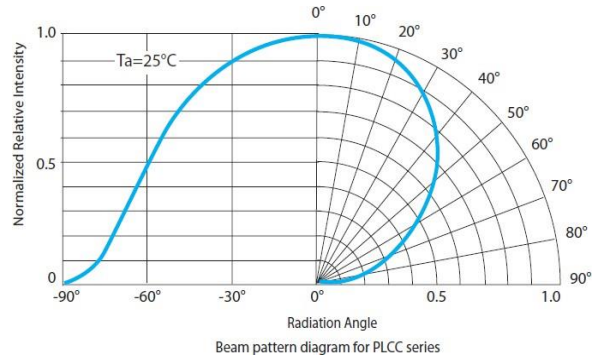
Parameter	Symbol	Value	Units
DC Forward Current	I _F	90	mA
Pulse Forward current	I _{pulse}	120	mA
Reverse Current	I _R	10	mA
Reverse Voltage	V _R	5	V
Operating temperature	-	-40~+85	°C
Storage Temperature	-	-40~+125	°C
LED Junction Temperature	T _j	125	°C
ESD Sensitivity (HBM)	V _B	1000	V
Soldering temperature	T _s	Reflow Soldering : 255~260°C/10~30sec Manual Soldering : 350 °C/3sec	

Characteristic Curves

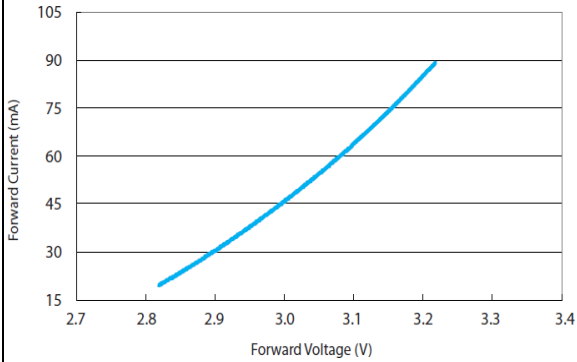
Color Spectrum



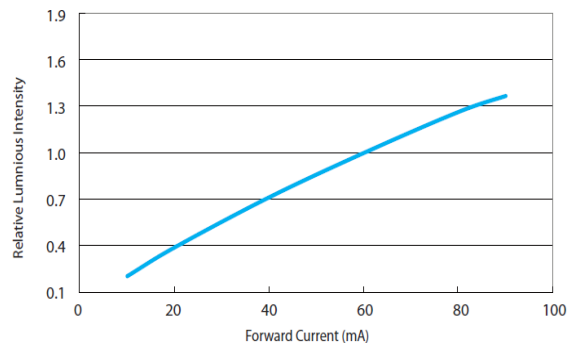
Beam Pattern



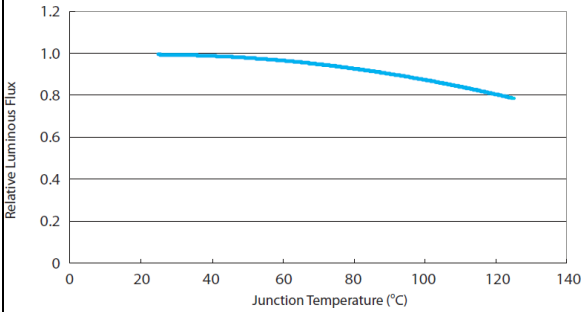
Forward Current vs. Forward Voltage



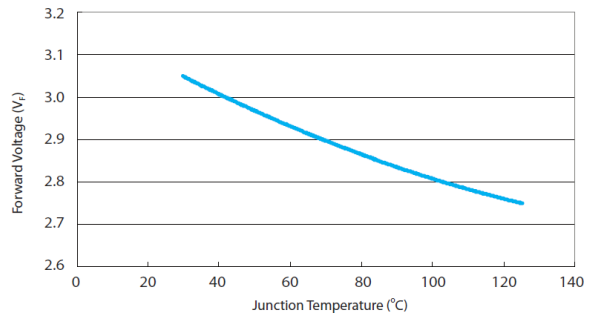
Relative Luminous Intensity vs. Forward Current



Relative Luminous Flux vs. junction Temperature



Forward Voltage vs. Junction Temperature



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