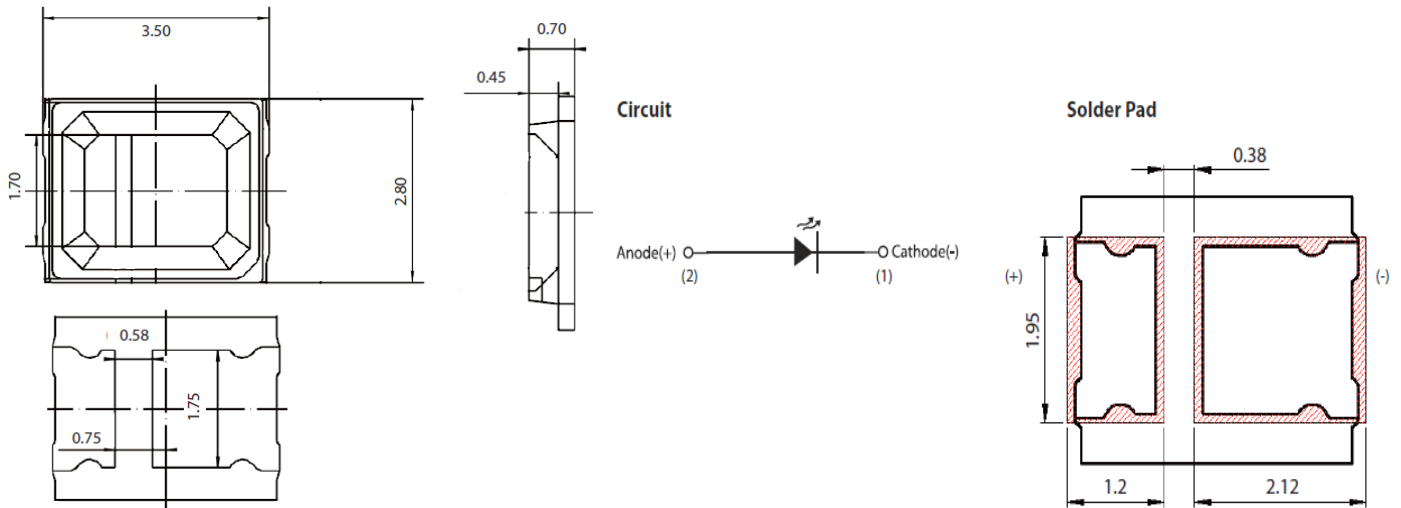


Datasheet No.156 SMD LED KL5L2835W 0.5W 150mA

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)



Luminous Flux Characteristic @150mA

Lumens bin	Min. Luminous flux (Lm)	Max. Luminous flux (Lm)	Note
60-65Lm	60Lm	65Lm	Regular
65-70Lm	65Lm	70Lm	Regular Premium
70-75Lm	70Lm	75Lm	Special

Correlated Color Temperature (CCT)

White	Warm White	Natural White
W1 5700-6000K	T1 2700-2900K	S1 3700-3900K
W2 6000-6500K	T2 2900-3000K	S2 3900-4000K
W3 6500-7000K	T3 3000-3300K	S3 4000-4300K

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)	$2\Theta_{1/2}$	120	Degree
Thermal resistance	-Rt	20	°C/W
CRI	Ra	>80	-
Lumens *	Φ_v	60-65-70-75	Lumens
Color Correlated Temperature CCT *	CCT	1700-13000	K

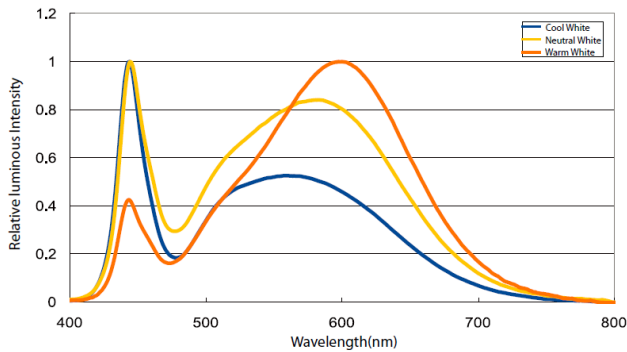
* -please specify your range value for IV & CCT

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Value	Units
Forward current	I_F	200	mA
Pulse Forward current	I_{pulse}	400	mA
Reverse Current	I_R	10	μA
Reverse Voltage	V_R	5	V
Operating temperature	-	-40~+80	°C
Storage Temperature	-	-40~+125	°C
LED Junction Temperature	T_j	125	°C
ESD Sensitivity (HBM)	V_B	2000	V
Soldering temperature IPC/JEDEC J-STD -020D SOLDER LIQUIDOUS 217°C	T_s	Reflow Soldering : 255~260°C/10~30sec Manual Soldering : 350 °C/3sec	

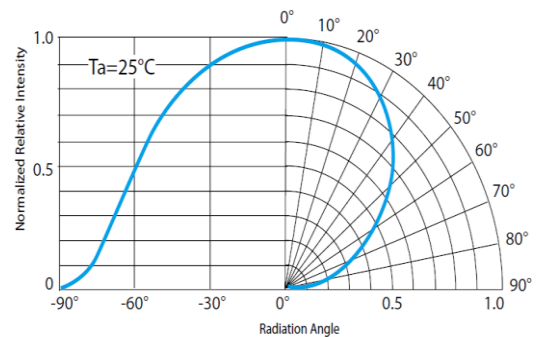
Characteristic Curves

Color Spectrum



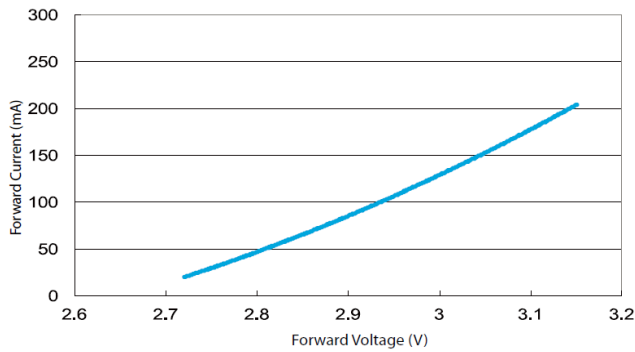
Color Spectrum at a typical CCT for PLCC 2835 0.5W series

Beam Pattern



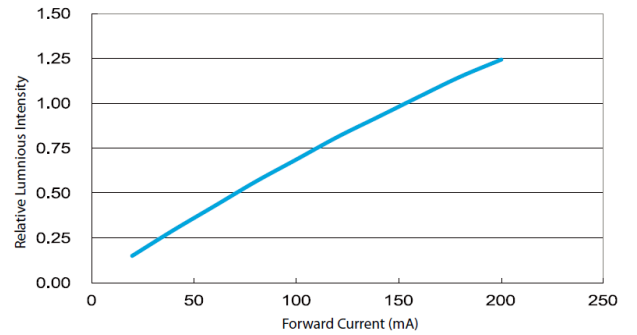
Beam pattern diagram for PLCC series

Forward Current vs. Forward Voltage



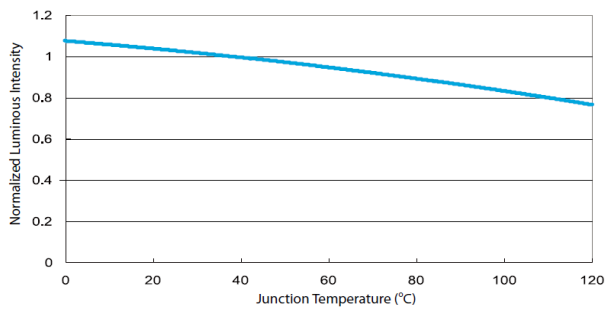
Forward Current vs. Forward Voltage for PLCC 2835 0.5W series

Relative Luminous Intensity vs. Forward Current



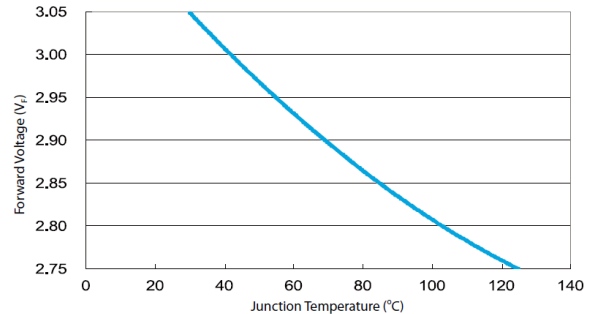
Luminous Intensity vs. Forward Current for PLCC 2835 0.5W series

Relative Luminous Flux vs. junction Temperature



Luminous flux vs. Junction temperature for PLCC 2835 0.5W series

Forward Voltage vs. Junction Temperature



Forward voltage vs. Junction temperature for PLCC 2835 0.5W series



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