

Lextar

Ennostar Group

Lighting LED and Module

Smart Innovation, Amazing Life

Indoor Luminaries

225lm/W solution for Indoor luminaries

Industry standard footprint for drop-in replacement designs

Available in High CRI KSF versions



3014



4014



2835 0.2W



2835 1W
6V/9V/18V/36V



COB



Outdoor & Industrial

230lm/W & L90>50Khrs

Best lm/\$ solution for outdoor & industrial lighting



3030



5050



2020



3535



UV

UVA & UVC solution featuring high radiant power for various purposes and specific applications



2835 UVA



3535 UVA



3535 UVC



**6868 UVA/
6868 UVC**



Human Centric Lighting

Low blue & optimized MP ratio solution
Keeping your eyes healthy in modern world



4014



3030 EMC



Food Enhancement Lighting

Advanced color management on customized spectrum & CCT
Ideally designed for food industry



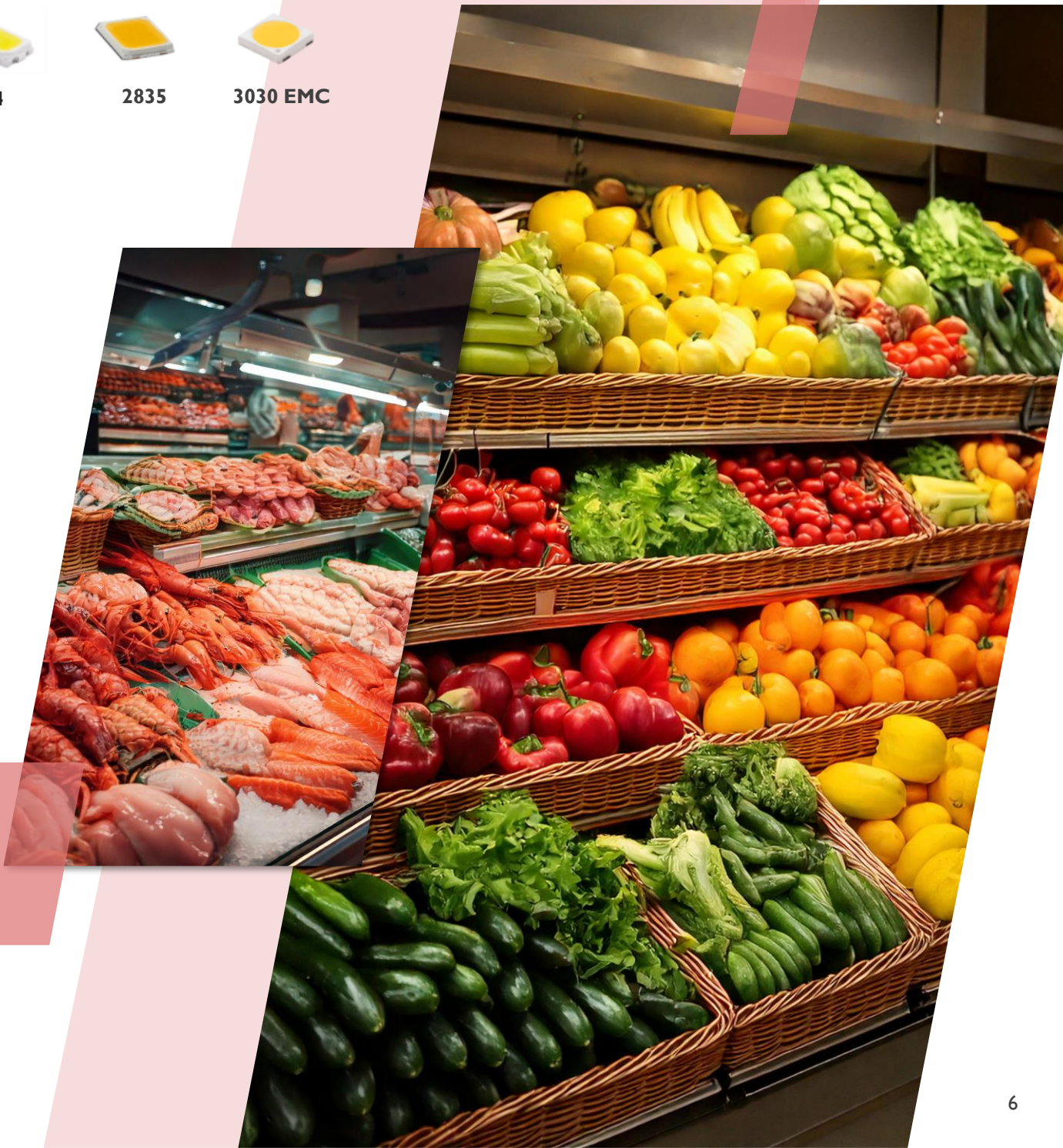
3014



2835



3030 EMC



Clean Room Yellow Light

PC Amber for yellow light solution

High Efficiency Lamp up to 150lm/W | Cut-off of < 520nm wavelength



3030 EMC



2835



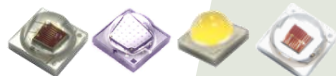
Horticultural Lighting

High efficacy 660nm hyper Red >4 PPE solution

Excellent reliability design with great lifetime performance



3030 0.5W



3535 1~3W



COB 10~100W



Color LED

Integrated mix color solution for
emergency warning light application

Single color:



3030 0.5W



2020 1~3W



1717CSP 1~2W

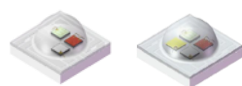


3535 1~3W

Multi-Color in one:



0.2~1W RGB/RGBW in one



1W~5W RGB/RGBW in one



Contents

Low-Mid Power Series

3806\2016\3014\4014\5630
56A\3030PCT(Round)\3030EMC\2835

11

High Power Series

2835\55B 5050EMC HV

26

Color Series

2020 Color\1717 Color\3535 Color

31

Multi – Color LED

5050 RGB in I\5050 RGBW in I
3030 Color\1717 Color\3535 Color\3535 9W

37

Horticulture Series

3030\3535

44

COB

Version 5

46



Low-Mid Power Series

- 3806
- 2016
- 3014
- 4014
- 5630 56A
- 3030PCT(Round)
- 3030EMC
- 2835

Low-Mid Power Series

3806



3.8 x 0.6 x 1 (mm)

- LM-80 certified LED
- ANSI 2700-10000K available for 3806
- Side emitting package, Ideal for slim lighting

CRI	CCT	Model Name	Vf	Luminous Flux(lm)							
				F9 6-6.5	FA 6.5-7	FB 7-7.5	FC 7.5-8	FD 8-8.5	FE 8.5-9	FF 9-9.5	FG 9.5-10
80 20mA,25C	2700K	PC38H01 V0	2.7-3.2								
	3000K		2.7-3.2								
	3500K		2.7-3.2								
	4000K		2.7-3.2								
	5000K		2.7-3.2								
	5700K		2.7-3.2								
	6500K		2.7-3.2								
90 20mA,25C	2700K	PC38U02 V0	2.7-3.2								
	3000K		2.7-3.2								
	3500K		2.7-3.2								
	4000K		2.7-3.2								
	5000K		2.7-3.2								
	5700K		2.7-3.2								
	6500K		2.7-3.2								

Low-Mid Power Series

2016



2.2 x 1.6 x 0.55 (mm)

- LM-80 certified LED
- ANSI 2700-10000K available for 2016
- Best performance and competitive cost

CRI	CCT	Model Name	Vf	Luminous Flux(lm)							
				TB 18-20	TC 20-22	TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34
80 65mA 25C	2700K	PC20H01 V0	2.7-3.2								
	3000K		2.7-3.2								
	3500K		2.7-3.2								
	4000K		2.7-3.2								
	5000K		2.7-3.2								
	5700K		2.7-3.2								
90 65mA 25C	6500K	PC20U06 V0	2.7-3.2								
	2700K		2.7-3.2								
	3000K		2.7-3.2								
	3500K		2.7-3.2								
	4000K		2.7-3.2								
	5000K		2.7-3.2								
	5700K		2.7-3.2								
	6500K		2.7-3.2								

Low-Mid Power Series

3014



3.0 × 1.4 × 0.65 (mm)

- LM-80 certified LED
- Small size & high lumen output
- Wide CCT range available 1800K-8000K
- Best performance and competitive cost for panel light
- 190lm/W Ra90 KSF solution

CRI	CCT	Model Name	Vf	Luminous Flux(lm)								
				TB 18-20	TC 20-22	TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36
95 65mA 25C	2700K	PC30V2I V0	2.8-3.1									
	3000K		2.8-3.1									
	3500K		2.8-3.1									
	4000K		2.8-3.1									
	5000K		2.8-3.1									
	5700K		2.8-3.1									
	6500K		2.8-3.1									
80 65mA 25C	2700K	PC30H08 VI	2.8-3.1									
	3000K		2.8-3.1									
	3500K		2.8-3.1									
	4000K		2.8-3.1									
	5000K		2.8-3.1									
	5700K		2.8-3.1									
	6500K		2.8-3.1									
80 65mA 25C	2700K	PC30H08 V3	2.8-3.1									
	3000K		2.8-3.1									
	3500K		2.8-3.1									
	4000K		2.8-3.1									
	5000K		2.8-3.1									
	5700K		2.8-3.1									
	6500K		2.8-3.1									
80 65mA 25C	2700K	PC30H08 V4	2.8-3.1									
	3000K		2.8-3.1									
	3500K		2.8-3.1									
	4000K		2.8-3.1									
	5000K		2.8-3.1									
	5700K		2.8-3.1									
	6500K		2.8-3.1									
80 65mA 25C	2700K	PC30H08 V5	2.8-3.1									
	3000K		2.8-3.1									
	3500K		2.8-3.1									
	4000K		2.8-3.1									
	5000K		2.8-3.1									
	5700K		2.8-3.1									
	6500K		2.8-3.1									
90 65mA 25C	2700K	PC30U12 V0	2.8-3.1									
	3000K		2.8-3.1									
	3500K		2.8-3.1									
	4000K		2.8-3.1									
	5000K		2.8-3.1									
	5700K		2.8-3.1									
	6500K		2.8-3.1									

3014

CRI	CCT	Model Name	Vf	Luminus Flux(lm)								
				TB 18-20	TC 20-22	TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36
90 65mA 25C	2700K	PC30U12 VI	2.8-3.1									
	3000K		2.8-3.1									
	3500K		2.8-3.1									
	4000K		2.8-3.1									
	5000K		2.8-3.1									
	5700K		2.8-3.1									
	6500K		2.8-3.1									
NEW 90 65mA 25C KSF solution	2700K	PC30U12 V3 (KSF)	2.8-3.1									
	3000K		2.8-3.1									
	3500K		2.8-3.1									
	4000K		2.8-3.1									
	5000K		2.8-3.1									
	5700K		2.8-3.1									
	6500K		2.8-3.1									

CRI	CCT	Model Name	Vf	Luminus Flux(lm)		
				QG 31-33.5	QH 33.5-36	QI 36-38.5
NEW 90 65mA 25C KSF solution	2700K	PC30U12 V4 (KSF)	2.7-3.0			
	3000K		2.7-3.0			
	3500K		2.7-3.0			
	4000K		2.7-3.0			
	5000K		2.7-3.0			
	5700K		2.7-3.0			
	6500K		2.7-3.0			

Low-Mid Power Series

4014



4.0 × 1.4 × 0.65 (mm)

- ANSI 2700K-6500K available for 4014
- High Efficacy & High lm/\$ for panel light
- Ideal for slim lighting

CRI	CCT	Model Name	Vf	Luminus Flux(lm)						
				TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36
80 60mA 25C	2700K	PC40H03 V0	2.8-3.3							
	3000K		2.8-3.3							
	3500K		2.8-3.3							
	4000K		2.8-3.3							
	5000K		2.8-3.3							
	5700K		2.8-3.3							
	6500K		2.8-3.3							

CRI	CCT	Model Name	Vf	Luminus Flux(lm)			
				PK 31-31.5	PL 31.5-33	PM 33-35	PN 31.5-35
80 60mA 25C	3500K	PC40H04 V3	2.7-2.9				
	4000K		2.7-2.9				
	5000K		2.7-2.9				
	6500K		2.7-2.9				

CRI	CCT	Model Name	Vf	Luminus Flux(lm)			
				CE 23-25	CF 25-27	CG 27-29	CH 29-31
90 60mA 25C	2700K	PC40U06 V2	2.8-3.3				
	3000K		2.8-3.3				
	3500K		2.8-3.3				
	4000K		2.8-3.3				
	5000K		2.8-3.3				
	5700K		2.8-3.3				
	6500K		2.8-3.3				

CRI	CCT	Model Name	Vf	Luminus Flux(lm)				
				TC 20-22	TD 22-24	TE 24-26	TF 26-28	TG 28-30
NEW 95 30mA 25C low blue light	2700K	PC40V07 V1	5-6.2					
	3000K		5-6.2					
	3500K		5-6.2					
	4000K		5-6.2					
	5000K		5-6.2					
	5700K		5-6.2					
	6500K		5-6.2					

Low-Mid Power Series

5630 56A



5.6 × 3.0 × 0.6 (mm)

- High Efficiency up to 210 lm/W
- ANSI 1800K-8000K available
- Excellent lifetime L70>100Khrs

CRI	CCT	Model Name	Vf	Luminous Flux						
				VE 22.5-25	VF 25.5-28	VG 28-31.5	HI 31.5-33.5	H2 33.5-35.5	II 35.5-37.5	I2 37.5-39.5
80 65mA 25C	2700K	PC56H19 V0	2.7-3.1							
	3000K		2.7-3.1							
	3500K		2.7-3.1							
	4000K		2.7-3.1							
	5000K		2.7-3.1							
	5700K		2.7-3.1							
	6500K		2.7-3.1							
	2700K	PC56H19 V1	2.7-3.1							
	3000K		2.7-3.1							
	3500K		2.7-3.1							
	4000K		2.7-3.1							
	5000K		2.7-3.1							
	5700K		2.7-3.1							
	6500K		2.7-3.1							
	2700K	PC56H19 V2	2.6-3.0							
	3000K		2.6-3.0							
	3500K		2.6-3.0							
	4000K		2.6-3.0							
	5000K		2.6-3.0							
	5700K		2.6-3.0							
	6500K		2.6-3.0							
90 65mA 25C	2700K	PC56U21 V2	2.6-3.0							
	3000K		2.6-3.0							
	3500K		2.6-3.0							
	4000K		2.6-3.0							
	5000K		2.6-3.0							
	5700K		2.6-3.0							
	6500K		2.6-3.0							

Low-Mid Power Series

3030PCT(Round)



3.2 × 3.0 × 0.6 (mm)

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement Designs
- Best thermal solution /High performance
- High Efficiency up to 230 lm/W Ra70

CRI	CCT	Model Name	Vf	Luminous Flux						
				VE 22.5-25	VF 25.5-28	VG 28-31.5	HI 31.5-33.5	H2 33.5-35.5	II 35.5-38	I2 38-40.5
80 65mA 25C	2700K	PC33H23 V0	2.7-3.1							
	3000K		2.7-3.1							
	3500K		2.7-3.1							
	4000K		2.7-3.1							
	5000K		2.7-3.1							
	5700K		2.7-3.1							
	6500K		2.7-3.1							
	2700K	PC33H23 V2	2.6-3.0							
	3000K		2.6-3.0							
	3500K		2.6-3.0							
	4000K		2.6-3.0							
	5000K		2.6-3.0							
	5700K		2.6-3.0							
	6500K		2.6-3.0							

Low-Mid Power Series

3030PCT (Square)



3.2 × 3.0 × 0.65 (mm)

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement Designs
- Best thermal solution /High performance
- High Efficiency up to 230 lm/W Ra70

CRI	CCT	Model Name	Vf	Luminous Flux							
				TG 28-30	TH 30-32	TI 32-34	TJ 34-36	TK 36-38	TL 38-40	TM 40-42	TN 42-44
NEW 70 65mA 25C	2700K	PC33N53 V0	2.6-2.8								
	3000K		2.6-2.8								
	3500K		2.6-2.8								
	4000K		2.6-2.8								
	5000K		2.6-2.8								
	5700K		2.6-2.8								
	6500K		2.6-2.8								
80 65mA 25C	2700K	PC33H61 VI	2.6-2.8								
	3000K		2.6-2.8								
	3500K		2.6-2.8								
	4000K		2.6-2.8								
	5000K		2.6-2.8								
	5700K		2.6-2.8								
	6500K		2.6-2.8								
90 65mA 25C	2700K	PC33U55 VI	2.6-2.8								
	3000K		2.6-2.8								
	3500K		2.6-2.8								
	4000K		2.6-2.8								
	5000K		2.6-2.8								
	5700K		2.6-2.8								
	6500K		2.6-2.8								
90 65mA 25C KSF solution	2700K	PC33U55 VI (KSF)	2.6-2.8								
	3000K		2.6-2.8								
	3500K		2.6-2.8								
	4000K		2.6-2.8								
	5000K		2.6-2.8								
	5700K		2.6-2.8								
	6500K		2.6-2.8								

Low-Mid Power Series

33A

3030EMC



3.2 × 3.0 × 0.6 (mm)

- Best reliability performance
- High reliability, L90>36,000hrs@105°C, 1W
- High efficacy
- Simple design to pair with optical lens

33A 0.2W

CRI	CCT	Model Name	Vf	Luminus Flux						
				VF 25.5-28	VG 28-31.5	HI 31.5-33.5	H2 33.5-35.5	I1 35.5-37.5	I2 37.5-39.5	J1 39.5-43
70 65mA 25C	2700K	PC33N60 V0	2.6-2.8							
	3000K		2.6-2.8							
	3500K		2.6-2.8							
	4000K		2.6-2.8							
	5000K		2.6-2.8							
	5700K		2.6-2.8							
	6500K		2.6-2.8							
80 65mA 25C	2700K	PC33H61 V0	2.6-2.8							
	3000K		2.6-2.8							
	3500K		2.6-2.8							
	4000K		2.6-2.8							
	5000K		2.6-2.8							
	5700K		2.6-2.8							
	6500K		2.6-2.8							
90 65mA 25C	2700K	PC33U62 V0	2.6-2.8							
	3000K		2.6-2.8							
	3500K		2.6-2.8							
	4000K		2.6-2.8							
	5000K		2.6-2.8							
	5700K		2.6-2.8							
	6500K		2.6-2.8							

33A 0.2W

CRI	CCT	Model Name	Vf	Luminus Flux								
				ES 90-100	ET 100-110	EU 110-120	EV 120-130	EW 130-140	EX 140-150	EY 150-160	EZ 160-170	EA 170-180
70 150mA 25C	2700K	PC33N58 V0	5.8-6.4									
	3000K		5.8-6.4									
	3500K		5.8-6.4									
	4000K		5.8-6.4									
	5000K		5.8-6.4									
	5700K		5.8-6.4									
	6500K		5.8-6.4									
80 150mA 25C	2700K	PC33H11 V2	5.8-6.4									
	3000K		5.8-6.4									
	3500K		5.8-6.4									
	4000K		5.8-6.4									
	5000K		5.8-6.4									
	5700K		5.8-6.4									
	6500K		5.8-6.4									
90 150mA 25C	2700K	PC33U06 V3	5.8-6.4									
	3000K		5.8-6.4									
	3500K		5.8-6.4									
	4000K		5.8-6.4									
	5000K		5.8-6.4									
	5700K		5.8-6.4									
	6500K		5.8-6.4									

Low-Mid Power Series

33B

3030EMC



3.2 × 3.0 × 0.67 (mm)

- Best reliability performance
- High reliability, L90>36,000hrs@105°C, 1W
- High efficacy
- Simple design to pair with optical lens

33B 1W

CRI	CCT	Model Name	Vf	Luminous Flux						
				ES 90-100	ET 100-110	EU 110-120	EV 120-130	EW 130-140	EX 140-150	EY 150-160
95 150mA 25C	2700K	PC33V67 V0	5.8-6.4							
	3000K		5.8-6.4							
	3500K		5.8-6.4							
	4000K		5.8-6.4							
	5000K		5.8-6.4							
	5700K		5.8-6.4							
	6500K		5.8-6.4							

33B 1W

CRI	CCT	Model Name	Vf	Luminous Flux				
				EQ 70-80	ER 80-90	ES 90-100	ET 100-110	EU 110-120
NEW 95 150mA 25C low blue light	2700K	PC33V67 VI	5.8-6.6					
	3000K		5.8-6.6					
	3500K		5.8-6.6					
	4000K		5.8-6.6					
	5000K		5.8-6.6					
	5700K		5.8-6.6					
	6500K		5.8-6.6					

Low-Mid Power Series

2835 0.2~0.5W



3.5 X 2.8 X 0.65 (mm)

- LM-80 certified LED
- Low thermal resistance
- The most cost competitive solution

0.2W 2835

CRI	CCT	Model Name	Vf	Luminous Flux							
				TB 18-20	TC 20-22	TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34
80 60mA 25C	2700K	PC35H12 V0	2.8~3.2								
	3000K		2.8~3.2								
	3500K		2.8~3.2								
	4000K		2.8~3.2								
	5000K		2.8~3.2								
	5700K		2.8~3.2								
	6500K		2.8~3.2								
	2700K	PC35H12 V1	2.8~3.2								
	3000K		2.8~3.2								
	3500K		2.8~3.2								
	4000K		2.8~3.2								
	5000K		2.8~3.2								
	5700K		2.8~3.2								
	6500K		2.8~3.2								
90 60mA 25C	2700K	PC35U50 V0	2.8~3.2								
	3000K		2.8~3.2								
	3500K		2.8~3.2								
	4000K		2.8~3.2								
	5000K		2.8~3.2								
	5700K		2.8~3.2								
	6500K		2.8~3.2								
	2700K	PC35U50 V1	2.8~3.2								
	3000K		2.8~3.2								
	3500K		2.8~3.2								
	4000K		2.8~3.2								
	5000K		2.8~3.2								
	5700K		2.8~3.2								
	6500K		2.8~3.2								

Low-Mid Power Series

2835 0.2~0.5W



- LM-80 certified LED
- Low thermal resistance
- The most cost competitive solution

3.5 X 2.8 X 0.65 (mm)

0.5W 2835

CRI	CCT	Model Name	Vf	Luminous Flux			
				VM 55-60	VN 60-66	VO 66-72	VP 72-78
80 150mA 25C	2700K	PC35H11 V0	2.9-3.4				
	3000K		2.9-3.4				
	3500K		2.9-3.4				
	4000K		2.9-3.4				
	5000K		2.9-3.4				
	5700K		2.9-3.4				
	6500K		2.9-3.4				
	2700K	PC35H11 V1	2.9-3.4				
	3000K		2.9-3.4				
	3500K		2.9-3.4				
	4000K		2.9-3.4				
	5000K		2.9-3.4				
	5700K		2.9-3.4				
	6500K		2.9-3.4				

CRI	CCT	Model Name	Vf	Luminous Flux									
				TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36	TK 36-38	TL 38-40	TM 40-42
80 65mA 25C	2700K	PC35H11 V3	2.7-2.9										
	3000K		2.7-2.9										
	3500K		2.7-2.9										
	4000K		2.7-2.9										
	5000K		2.7-2.9										
	5700K		2.7-2.9										
	6500K		2.7-2.9										
	2700K	PC35H11 V4	2.6-2.8										
	3000K		2.6-2.8										
	3500K		2.6-2.8										
	4000K		2.6-2.8										
	5000K		2.6-2.8										
	5700K		2.6-2.8										
	6500K		2.6-2.8										
	2700K	PC35H11 V5	2.7-2.9										
	3000K		2.7-2.9										
	3500K		2.7-2.9										
	4000K		2.7-2.9										
	5000K		2.7-2.9										
	5700K		2.7-2.9										
	6500K		2.7-2.9										
	2700K	PC35H11 V7	2.6-2.8										
	3000K		2.6-2.8										
	3500K		2.6-2.8										
	4000K		2.6-2.8										
	5000K		2.6-2.8										
	5700K		2.6-2.8										
	6500K		2.6-2.8										

2835 0.2~0.5W

0.5W 2835

CRI	CCT	Model Name	Vf	Luminous Flux									
				TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36	TK 36-38	TL 38-40	TM 40-42
90 65mA 25C	2700K	PC35UI6 V0	2.8-3.1										
	3000K		2.8-3.1										
	3500K		2.8-3.1										
	4000K		2.8-3.1										
	5000K		2.8-3.1										
	5700K		2.8-3.1										
	6500K		2.8-3.1										
	2700K	PC35UI6 V1	2.8-3.1										
	3000K		2.8-3.1										
	3500K		2.8-3.1										
	4000K		2.8-3.1										
	5000K		2.8-3.1										
	5700K		2.8-3.1										
	6500K		2.8-3.1										
	2700K	PC35UI6 V3	2.7-2.9										
	3000K		2.7-2.9										
	3500K		2.7-2.9										
	4000K		2.7-2.9										
	5000K		2.7-2.9										
	5700K		2.7-2.9										
	6500K		2.7-2.9										
	2700K	PC35UI6 V4	2.6-2.8										
	3000K		2.6-2.8										
	3500K		2.6-2.8										
	4000K		2.6-2.8										
	5000K		2.6-2.8										
	5700K		2.6-2.8										
	6500K		2.6-2.8										
	2700K	PC35UI6 V5	2.7-2.9										
	3000K		2.7-2.9										
	3500K		2.7-2.9										
	4000K		2.7-2.9										
	5000K		2.7-2.9										
	5700K		2.7-2.9										
	6500K		2.7-2.9										
	2700K	PC35UI6 V7	2.6-2.8										
	3000K		2.6-2.8										
	3500K		2.6-2.8										
	4000K		2.6-2.8										
	5000K		2.6-2.8										
	5700K		2.6-2.8										
	6500K		2.6-2.8										

2835 0.2~0.5W

0.5W 2835

CRI	CCT	Model Name	Vf	Luminous Flux									
				TD 22-24	TE 24-26	TF 26-28	TG 28-30	TH 30-32	TI 32-34	TJ 34-36	TK 36-38	TL 38-40	TM 40-42
90 65mA 25C KSF solution	2700K	PC35UI6 V1 (KSF)	2.8-3.1										
	3000K		2.8-3.1										
	3500K		2.8-3.1										
	4000K		2.8-3.1										
	5000K		2.8-3.1										
	5700K		2.8-3.1										
	6500K		2.8-3.1										
	2700K	PC35UI6 V3 (KSF)	2.7-2.9										
	3000K		2.7-2.9										
	3500K		2.7-2.9										
	4000K		2.7-2.9										
	5000K		2.7-2.9										
	5700K		2.7-2.9										
	6500K		2.7-2.9										
	2700K	PC35UI6 V4 (KSF)	2.6-2.8										
	3000K		2.6-2.8										
	3500K		2.6-2.8										
	4000K		2.6-2.8										
	5000K		2.6-2.8										
	5700K		2.6-2.8										
	6500K		2.6-2.8										
	2700K	PC35UI6 V5 (KSF)	2.7-2.9										
	3000K		2.7-2.9										
	3500K		2.7-2.9										
	4000K		2.7-2.9										
	5000K		2.7-2.9										
	5700K		2.7-2.9										
	6500K		2.7-2.9										
	2700K	PC35UI6 V7 (KSF)	2.6-2.8										
	3000K		2.6-2.8										
	3500K		2.6-2.8										
	4000K		2.6-2.8										
	5000K		2.6-2.8										
	5700K		2.6-2.8										
	6500K		2.6-2.8										
NEW 95 65mA 25C High CRI solution	2700K	PC35UI6 V6	2.7-3.0										
	3000K		2.7-3.0										
	3500K		2.7-3.0										
	4000K		2.7-3.0										
	5000K		2.7-3.0										
	5700K		2.7-3.0										
	6500K		2.7-3.0										
	2700K	PC35V52 V1	2.7-3.0										
	3000K		2.7-3.0										
	3500K		2.7-3.0										
	4000K		2.7-3.0										
	5000K		2.7-3.0										
	5700K		2.7-3.0										
	6500K		2.7-3.0										
	6500K		2.7-3.0										



High Power Series

- 2835
- 55B 5050EMC HV

High Power Series

2835 1W



3.5 X 2.8 X 0.65 (mm)

- Best suits linear driver application
- Highest Lumen/\$ for bulbs
- LM-80 certified >50Khrs @105°C
- The most cost competitive solution

6V 1W 2835

CRI	CCT	Model Name	Vf	Luminous Flux(lm)					
				VV 120-130	VW 130-140	VX 140-150	VY 150-160	VZ 160-170	VA 170-180
80 150mA 25C	2700K	PC35HI5 V2	5.7-6.9						
	3000K		5.7-6.9						
	3500K		5.7-6.9						
	4000K		5.7-6.9						
	5000K		5.7-6.9						
	5700K		5.7-6.9						
	6500K		5.7-6.9						

CRI	CCT	Model Name	Vf	Luminous Flux(lm)					
				EU 110-120	EV 120-130	EW 130-140	EX 140-150	EY 150-160	EZ 160-170
80 150mA 25C	2700K	PC35HI5 V0	5.8-6.4						
	3000K		5.8-6.4						
	3500K		5.8-6.4						
	4000K		5.8-6.4						
	5000K		5.8-6.4						
	5700K		5.8-6.4						
	6500K		5.8-6.4						
90 150mA 25C	2700K	PC35U42 V0	5.8-6.4						
	3000K		5.8-6.4						
	3500K		5.8-6.4						
	4000K		5.8-6.4						
	5000K		5.8-6.4						
	5700K		5.8-6.4						
	6500K		5.8-6.4						

9V IW 2835

CRI	CCT	Model Name	Vf	Luminous Flux(lm)									
				VS 100-105	VT 105-110	UA 110-115	UB 115-120	VV 120-130	VW 130-140	VX 140-150	VY 150-160	VZ 160-170	VA 170-180
80 100mA 25C	2700K	PC35HI3 V0	8.7-9.6										
	3000K		8.7-9.6										
	3500K		8.7-9.6										
	4000K		8.7-9.6										
	5000K		8.7-9.6										
	5700K		8.7-9.6										
	6500K		8.7-9.6										
80 100mA 25C	2700K	PC35HI3 V1	8.7-9.6										
	3000K		8.7-9.6										
	3500K		8.7-9.6										
	4000K		8.7-9.6										
	5000K		8.7-9.6										
	5700K		8.7-9.6										
	6500K		8.7-9.6										
80 100mA 25C	2700K	PC35HI3 V2	8.7-9.3										
	3000K		8.7-9.3										
	3500K		8.7-9.3										
	4000K		8.7-9.3										
	5000K		8.7-9.3										
	5700K		8.7-9.3										
	6500K		8.7-9.3										
80 100mA 25C	2700K	PC35HI3 V3	8.4-9.0										
	3000K		8.4-9.0										
	3500K		8.4-9.0										
	4000K		8.4-9.0										
	5000K		8.4-9.0										
	5700K		8.4-9.0										
	6500K		8.4-9.0										
80 100mA 25C	2700K	PC35HI3 V4	8.4-9.0										
	3000K		8.4-9.0										
	3500K		8.4-9.0										
	4000K		8.4-9.0										
	5000K		8.4-9.0										
	5700K		8.4-9.0										
	6500K		8.4-9.0										
80 100mA 25C	2700K	PC35HI3 V5	8.4-9.0										
	3000K		8.4-9.0										
	3500K		8.4-9.0										
	4000K		8.4-9.0										
	5000K		8.4-9.0										
	5700K		8.4-9.0										
	6500K		8.4-9.0										
90 100mA 25C	2700K	PC35U27 V1	8.7-9.6										
	3000K		8.7-9.6										
	3500K		8.7-9.6										
	4000K		8.7-9.6										
	5000K		8.7-9.6										
	5700K		8.7-9.6										
	6500K		8.7-9.6										
90 100mA 25C	2700K	PC35U27 V2	8.7-9.3										
	3000K		8.7-9.3										
	3500K		8.7-9.3										
	4000K		8.7-9.3										
	5000K		8.7-9.3										
	5700K		8.7-9.3										
	6500K		8.7-9.3										
90 100mA 25C	2700K	PC35U27 V3	8.4-9.0										
	3000K		8.4-9.0										
	3500K		8.4-9.0										
	4000K		8.4-9.0										
	5000K		8.4-9.0										
	5700K		8.4-9.0										
	6500K		8.4-9.0										
90 100mA 25C	2700K	PC35U27 V4	8.4-9.0										
	3000K		8.4-9.0										
	3500K		8.4-9.0										
	4000K		8.4-9.0										
	5000K		8.4-9.0										
	5700K		8.4-9.0										
	6500K		8.4-9.0										
90 100mA 25C	2700K	PC35U27 V5	8.4-9.0										
	3000K		8.4-9.0										
	3500K		8.4-9.0										
	4000K		8.4-9.0										
	5000K		8.4-9.0										
	5700K		8.4-9.0										
	6500K		8.4-9.0										

2835 IW

18V IW 2835

CRI	CCT	Model Name	Vf	Luminous Flux(lm)								
				VT 105-110	UA 110-115	UB 115-120	VV 120-130	VW 130-140	VX 140-150	VY 150-160	VZ 160-170	VA 170-180
80 50mA 25C	2700K	PC35H38 V0	16.0-20.0									
	3000K		16.0-20.0									
	3500K		16.0-20.0									
	4000K		16.0-20.0									
	5000K		16.0-20.0									
	5700K		16.0-20.0									
	6500K		16.0-20.0									
80 50mA 25C	2700K	PC35H38 V1	16.0-20.0									
	3000K		16.0-20.0									
	3500K		16.0-20.0									
	4000K		16.0-20.0									
	5000K		16.0-20.0									
	5700K		16.0-20.0									
	6500K		16.0-20.0									
90 50mA 25C	2700K	PC35U41 V0	16.0-20.0									
	3000K		16.0-20.0									
	3500K		16.0-20.0									
	4000K		16.0-20.0									
	5000K		16.0-20.0									
	5700K		16.0-20.0									
	6500K		16.0-20.0									
90 50mA 25C	2700K	PC35U41 V1	16.0-20.0									
	3000K		16.0-20.0									
	3500K		16.0-20.0									
	4000K		16.0-20.0									
	5000K		16.0-20.0									
	5700K		16.0-20.0									
	6500K		16.0-20.0									

36V IW 2835

CRI	CCT	Model Name	Vf	Luminous Flux					
				VV 120-130	VW 130-140	VX 140-150	VY 150-160	VZ 160-170	WA 170-180
80 30mA 25C	2700K	PC35H39 V0	36-39						
	3000K		36-39						
	3500K		36-39						
	4000K		36-39						
	5000K		36-39						
	5700K		36-39						
	6500K		36-39						

High Power Series

55B 5050EMC HV



5X5X0.7 (mm)

- High lumen density, easy optical lens design
- High Efficacy 230lm/W @1W CRI70
- High reliability L90>50K

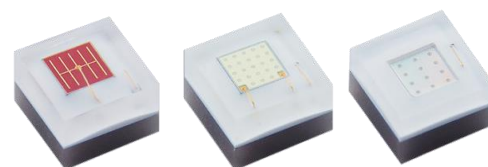
High efficacy version

CRI	CCT	Model Name	Vf	Luminous Flux(lm)											
				WX 540-560	WY 560-580	WZ 580-600	WA 600-620	WB 620-640	WC 640-660	WD 660-680	WE 680-700	WF 700-720	WG 720-740	WH 740-760	WI 760-780
70 640mA 25C	2700K	PC55N24 V3 HE 6V	5.8-6.4												
	3000K		5.8-6.4												
	3500K		5.8-6.4												
	4000K		5.8-6.4												
	5000K		5.8-6.4												
	5700K		5.8-6.4												
	6500K		5.8-6.4												
80 640mA 25C	2700K	PC55H26 V3 HE 6V	5.8-6.4												
	3000K		5.8-6.4												
	3500K		5.8-6.4												
	4000K		5.8-6.4												
	5000K		5.8-6.4												
	5700K		5.8-6.4												
	6500K		5.8-6.4												
90 640mA 25C	2700K	PC55U18 V3 HE 6V	5.8-6.4												
	3000K		5.8-6.4												
	3500K		5.8-6.4												
	4000K		5.8-6.4												
	5000K		5.8-6.4												
	5700K		5.8-6.4												
	6500K		5.8-6.4												
70 160mA 25C	2700K	PC55N24 V3 HE 24V	22-26												
	3000K		22-26												
	3500K		22-26												
	4000K		22-26												
	5000K		22-26												
	5700K		22-26												
	6500K		22-26												
80 160mA 25C	2700K	PC55H26 V3 HE 24V	22-26												
	3000K		22-26												
	3500K		22-26												
	4000K		22-26												
	5000K		22-26												
	5700K		22-26												
	6500K		22-26												
90 160mA 25C	2700K	PC55U18 V3 HE 24V	22-26												
	3000K		22-26												
	3500K		22-26												
	4000K		22-26												
	5000K		22-26												
	5700K		22-26												
	6500K		22-26												

Color Series

- 2020 Color
- 1717 Color
- 3535 Color

2020 Color



2.0 X 2.0 X 0.85 (mm)

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- For narrow beam angles requirement

T_j=25C

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC20X09.0	Red	620-630	67	72	1.8	2.6	350
	Blue	470-485	39	46	2.6	3.4	350
	Royal Blue	457-470	33	39	2.6	3.4	350
	Green	515-540	90	110	2.5	3.4	350
	Amber	580-595	38	47	1.8	2.6	350
	PC Amber	NA	100	102	2.6	3.4	350
	WW CRI80	2600K-3700K	100	128	2.6	3.4	350
	NW CRI80	3700K-4700K	110	140	2.6	3.4	350
	CW CRI80	4700K-7000K	110	140	2.6	3.4	350
	CW CRI70	4700K-7000K	115	160	2.6	3.4	350

I717 Color



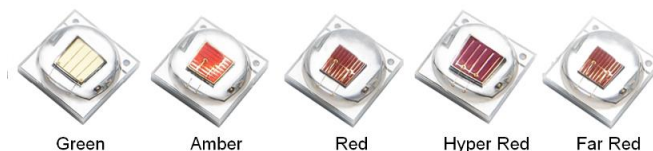
1.7 x 1.7 x 0.3 (mm)

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- For narrow beam angles requirement

T_j=25C

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC17X01.0	CW CRI70	4700K-7000K	155	175	2.6	3.1	350
	PC Red	NA	50	60	2.6	3.1	350
	PC Amber	NA	110	125	2.6	3.1	350
	PC Green	NA	180	200	2.6	3.1	350
	Red	620-630	50	60	1.8	2.6	350

3535 Color



Green

Amber

Red

Hyper Red

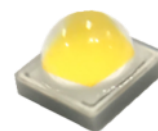
Far Red

3.5 × 3.5 × 2.24 (mm)

- Excellent reliability meeting professional requirement
- Standard 3535 foot print for drop-in replacement Designs
- Best thermal solution /High performance
- Superior efficiency PPF/W in horticulture application

T_j=25C

Model Name	Color	Wd (nm)	Luminous Flux (lm) /Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09 V2	Green	520-530	120	150	2.4	3.2	350
	Cyan	495-505	100	130	2.4	3.2	350
	Amber	580-600	50	70	2	2.6	350
	Red	615-635	60	85	1.8	2.2	350
	Hyper Red	655-665	400 mW	500 mW	1.8	2.2	350
	Far Red	720-740	250 mW	400 mW	1.9	2.6	350
	PC Amber	NA	100	130	2.6	3.2	350
	Blue	465-475	45	75	2.8	3.2	350
	Royal Blue	455-460	700 mW	1000 mW	2.8	3.2	350
	CW CRI70	5000-8050K	150	180	2.8	3.4	350

T_j=85C

3.5 × 3.5 × 2.24 (mm)

Model Name	Color	CCT	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3N10 V0	WW CRI80	3000K	250	310	2.6	3.4	700
	NW CRI70	4000K	290	350	2.6	3.4	700
	CW CRI70	5700K	290	350	2.6	3.4	700
	CW CRI70	6100K	290	350	2.6	3.4	700
	CW CRI70	6500K	290	350	2.6	3.4	700

- Horticulture Lighting
- Highbay Industrial
- Downlight

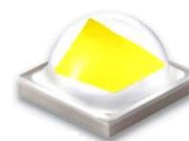


3.45 × 3.45 × 2.34 (mm)

T_j=25C

Model Name	Color	Wd (nm)	Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3N10 V1	Hyper Red	650-670	1050	1150	1.8	2.2	700
	Blue	450-475	900	1110	2.8	3.2	700

3535 9W

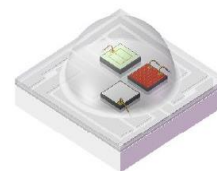


3.45 × 3.45 × 2.33 (mm)

T_j=25C

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PEX3N10 V2	CW CRI70	6500K	460	520	2.7	3.1	1500
	CW CRI70	5700K	460	520	2.7	3.1	1500
	CW CRI70	5000K	460	520	2.7	3.1	1500
	NW CRI70	4000K	460	520	2.7	3.1	1500
	NW CRI70	3500K	440	500	2.7	3.1	1500
	WW CRI70	3000K	440	500	2.7	3.1	1500
	WW CRI70	2700K	420	480	2.7	3.1	1500

- Lead frame package with individual 8 pins
- High sensitivity for red, green and blue light



3.45 × 3.45 × 2.00 (mm)

3535 3in1 RGB

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09 V5	Red	620-630	40	60	2	3	350
	Green	520-525	75	85	2.5	3.5	350
	Blue	450-455	15	20	2.5	3.5	350

- Lead frame package with individual 8 pins
- High sensitivity for red, green and blue light



3.45 × 3.45 × 2.00 (mm)

3535 4in1 RGBW

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09 V6	Red	620-630	40	60	2	3	350
	Green	520-525	75	85	2.5	3.5	350
	Blue	450-455	15	20	2.5	3.5	350
	CW Ra70	6500K	60	80	2.5	3.5	350

Multi – Color LED

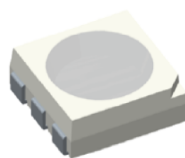
- 5050 RGB in I
- 5050 RGBW in I
- 3030 Color
- 1717 Color
- 3535 Color
- 3535 9W

Multi – Color LED

5050 RGB in I



- Integrated mix color solution
- Lead frame package with individual 6 pins
- High sensitivity for red, green and blue light



5.4 × 5.0 × 1.55 (mm)



5.4 × 5.0 × 1.05 (mm)

T_j=25C

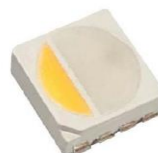
Model Name	Color	Wd (nm)	Luminous Flux (mcd)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC50X03.V1	RGB IN I	R : 620~630	530	1200	1.8	2.4	20
		G : 525~535	1200	1800	2.8	3.3	20
		B : 450~465	230	530	2.8	3.3	20

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC50X01 V3	RGB IN I	R : 619~625	19	26	1.8	2.6	150
		G : 520~530	37	45	2.8	3.6	150
		B : 465~475	10	16	2.8	3.6	150

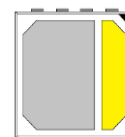
5050 RGBW in I



- Integrated color mixing solution
- Lead frame package with 4 individual channels
- Covering 0.2-1W solution



5.35 × 5.0 × 1.55 (mm)



5.4 × 5.0 × 1.05 (mm)

T_j=25C

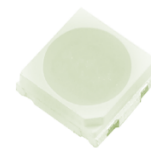
Model Name	Color	Wd (nm)	Luminous Flux (mcd)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC50X02 V1	RGBW IN I	R : 618-623	700	1000	2.00	2.30	20
		G : 521-526	1800	2400	2.95	3.25	20
		B : 467-472	350	650	2.85	3.25	20
		Ra80 4000K	6.5 lm	9.5 lm	2.75	3.05	20

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC50X02 V2	RGBW IN I	R : 615-630	18	27	1.80	2.60	150
		G : 520-530	35	50	2.80	3.60	150
		B : 465-475	8	16	2.80	3.60	150
		Ra80 4000K	50	67	2.80	3.60	150

Multi – Color LED

3030 Color

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement Designs
- Best thermal solution / JEDEC Level I



3.2 x 3.0 x 0.6 (mm)

T_j=25°C

Model Name	Color	Wd & Wp(nm)	Luminous Flux (lm)/ Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC33X50 V0	Red	615-630	16	23	1.8	2.6	150
	Green	522.5-535	50	62	2.8	3.6	150
	Blue	457-467	9	12	2.8	3.6	150
	Royal Blue	450-457	190 mW	250 mW	2.8	3.6	150
	Hyper Red	650-670	130 mW	145 mW	1.8	2.6	150
	Far Red	715-745	70 mW	85 mW	1.8	2.6	150
	Amber	580-595	14	20	1.8	2.6	150
	Orange	605-620	14	20	1.8	2.6	150

- CleanRoom Yellow (PC Amber) 

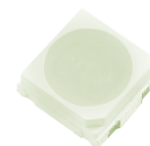


3.2 x 3.0 x 0.67 (mm)

T_j=25°C

Model Name	Color	Wd	Luminous Flux (lm)/ Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC33X50 V1	PC Amber	NA	58	84	2.8	3.4	150

- Phosphor Cating Color Led (3V) 

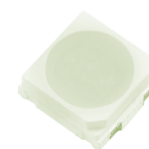


3.0 x 3.0 x 0.62 (mm)

T_j=25°C

Model Name	Color	Wd	Luminous Flux (lm)/ Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC33X50 V2	PC Amber	NA	46	58	2.8	3.4	150
	PC Red	NA	14	18	2.8	3.4	150

- Phosphor Cating Color Led (6V)



T_j=25C

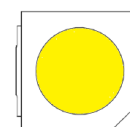
3.0 x 3.0 x 0.62 (mm)

Model Name	Color	Wd	Luminous Flux (lm)/ Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PC33X50 V3	PC Amber	NA	46	58	6.0	6.6	75
	PC Red	NA	12	18	6.0	6.6	75

- Phosphor Cating Color Led (3V)



- high structural strength 0.8T



T_j=25C

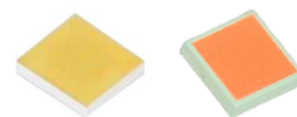
3.70 x 3.5 x 0.8 (mm)

Model Name	Color	Wd	Luminous Flux (lm)/ Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC33X50 V4	PC Amber	NA	50	67	2.8	3.4	150
	PC Red	NA	12	20	2.8	3.4	150
	Ra80 4000K & 5000K	NA	67	90	2.8	3.4	150

Multi – Color LED

1717 Color

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- For narrow beam angles requirement



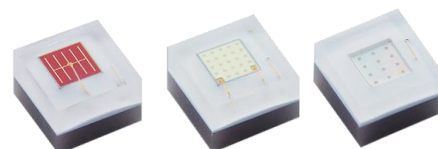
1.7 × 1.7 × 0.3 (mm)

T_j=25°C

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
NEW PC17X01.0	CW CRI70	4700K-7000K	155	175	2.6	3.1	350
	PC Red	NA	50	60	2.6	3.1	350
	PC Amber	NA	110	125	2.6	3.1	350
	PC Green	NA	180	200	2.6	3.1	350
	Red	620-630	50	60	1.8	2.6	350

2020 Color

- High lumen output in a directional application
- Excellent reliability meeting professional requirement
- For narrow beam angles requirement



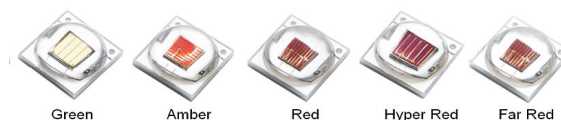
2.0 × 2.0 × 0.85 mm

T_j=25°C

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC20X09 V0	Red	620-630	67	72	1.8	2.6	350
	Blue	470-485	39	46	2.6	3.4	350
	Royal Blue	457-470	33	39	2.6	3.4	350
	Green	515-540	90	110	2.5	3.4	350
	Amber	580-595	38	47	1.8	2.6	350
	PC Amber	NA	100	102	2.6	3.4	350
	WW CRI80	2600K-3700K	100	128	2.6	3.4	350
	NW CRI80	3700K-4700K	110	140	2.6	3.4	350
	CW CRI80	4700K-7000K	110	140	2.6	3.4	350
	CW CRI70	4700K-7000K	115	160	2.6	3.4	350

Multi – Color LED

3535 Color



3.5 x 3.5 x 2.24 (mm)

- • Excellent reliability meeting professional requirement
- • Standard 3535 foot print for drop-in replacement Designs
- • Best thermal solution /High performance
- • Superior efficiency PPF/W in horticulture application

T_j=25C

Model Name	Color	Wd (nm)	Luminous Flux (lm) /Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09 V2	Green	520-530	120	150	2.4	3.2	350
	Cyan	495-505	100	130	2.4	3.2	350
	Amber	580-600	50	70	2	2.6	350
	Red	615-635	60	85	1.8	2.2	350
	Hyper Red	655-665	400 mW	500 mW	1.8	2.2	350
	Far Red	720-740	250 mW	400 mW	1.9	2.6	350
	PC Amber	NA	100	130	2.6	3.2	350
	Blue	465-475	45	75	2.8	3.2	350
	Royal Blue	455-460	700 mW	1000 mW	2.8	3.2	350
	CW CRI70	5000-8050K	150	180	2.8	3.4	350



T_j=85C



3.5 x 3.5 x 2.24 mm

Model Name	Color	CCT	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3N10 V0	VW CRI80	3000K	250	310	2.6	3.4	700
	NW CRI70	4000K	290	350	2.6	3.4	700
	CW CRI70	5700K	290	350	2.6	3.4	700
	CW CRI70	6100K	290	350	2.6	3.4	700
	CW CRI70	6500K	290	350	2.6	3.4	700

- Horticulture Lighting
- Highbay Industrial
- Downlight



3.0 x 3.0 x 0.62 (mm)

Tj=25C



Model Name	Color	Wd (nm)	Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3N10 V1	Hyper Red	650-670	1050	1150	1.8	2.2	700
	Blue	450-475	900	1110	2.8	3.2	700

NEW

3535 9W

Tj=25C



3.70 x 3.5 x 0.8 (mm)

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Max	Min	Max	
PEX3N10 V2	CW CRI70	6500K	460	520	2.7	3.1	1500
	CW CRI70	5700K	460	520	2.7	3.1	1500
	CW CRI70	5000K	460	520	2.7	3.1	1500
	NW CRI70	4000K	460	520	2.7	3.1	1500
	NW CRI70	3500K	440	500	2.7	3.1	1500
	WW CRI70	3000K	440	500	2.7	3.1	1500
	WW CRI70	2700K	420	480	2.7	3.1	1500

NEW

- Lead frame package with individual 8 pins
- High sensitivity for red, green and blue light



3535 3in1 RGB

3.45 x 3.45 x 2.00 (mm)

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09 V5	Red	620-630	40	60	2	3	350
	Green	520-525	75	85	2.5	3.5	350
	Blue	450-455	15	20	2.5	3.5	350

NEW

- Lead frame package with individual 8 pins
- High sensitivity for red, green and blue light



3535 4in1 RGBW

3.45 x 3.45 x 2.00 (mm)

Model Name	Color	Wd (nm)	Luminous Flux (lm)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3X09.6	Red	620-630	40	60	2	3	350
	Green	520-525	75	85	2.5	3.5	350
	Blue	450-455	15	20	2.5	3.5	350
	CW Ra70	6500K	60	80	2.5	3.5	350

NEW



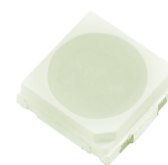
Horticulture Series

■ 3030

■ 3535

3030 Horticulture

- Excellent reliability meeting professional requirement
- Standard 3030 foot print for drop-in replacement Designs
- Best thermal solution



5.8 × 5.2 × 0.7 (mm)

T_j=25C

Model Name	Color	Wd (nm)	Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PC33X50 V0	Royal Blue	450-457	190 mW	250 mW	2.8	3.6	150
	Hyper Red	650-670	130 mW	145 mW	1.8	2.6	150
	Far Red	715-745	70 mW	85 mW	1.8	2.6	150

3535 Horticulture

- Excellent reliability meeting professional requirement
- Standard 3535 foot print for drop-in replacement Designs
- Best thermal solution /High performance
- Superior efficiency PPF/W in horticulture application



3.45 × 3.45 × 2.34mm

T_j=25C

Model Name	Color	Wd (nm)	Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3N10 V1	Hyper Red	650-670	1050 mW	1150 mW	1.8	2.2	700
	Blue	450-475	900 mW	1110 mW	2.8	3.2	700
PEX3X09 V2	Hyper Red	655-665	400 mW	500 mW	1.8	2.2	350
	Far Red	720-740	250 mW	400 mW	1.9	2.6	350
	Royal Blue	455-460	700 mW	1000 mW	2.8	3.2	350
	CW CRI70	5000-8050K	150	180	2.8	3.4	350

T_j=85C

Model Name	Color	Wd (nm)	Radiant Flux (mW)		Forward Voltage (V)		Forward Current (mA)
			Min	Typ	Min	Max	
PEX3N10 V0	WW CRI80	3000K	250	310	2.6	3.4	700
	NW CRI70	4000K	290	350	2.6	3.4	700
	CW CRI70	5700K	290	350	2.6	3.4	700
	CW CRI70	6100K	290	350	2.6	3.4	700
	CW CRI70	6500K	290	350	2.6	3.4	700



COB

■ Version 5

Version 5 COB

excellent efficacy, lifetime, quality



- Low thermal resistance and 2.5X operating available
- High efficacy and long life time (L70 > 50,000@105°C)
- Solar white Ra>95 solution



Solar white T_j = 85°C

Light Emitting Surface	Model Name	Dimension	Power(W)	CRI	CCT (K)	Luminous Flux (lm)	Efficacy(lm/w)	Forward Voltage (V)	Forward Current (mA)
		LxWxH (mm)		(min)		Typ	Typ	Typ	
9.8	PB06V11 V0	13.5*13.5*1.5	6.12	95	2700K	659	108	34.0	180
				95	3000K	690	113	34.0	180
				95	3500K	708	116	34.0	180
				95	4000K	719	117	34.0	180
				95	5000K	726	119	34.0	180
				95	6500K	712	116	34.0	180
	PB09V03 V0		9.18	95	2700K	983	107	34.0	270
				95	3000K	1029	112	34.0	270
				95	3500K	1055	115	34.0	270
				95	4000K	1071	117	34.0	270
				95	5000K	1082	118	34.0	270
				95	6500K	1060	115	34.0	270
	PB13V03 V0		12.24	95	2700K	1285	105	34.0	360
				95	3000K	1337	109	34.0	360
				95	3500K	1370	112	34.0	360
				95	4000K	1391	114	34.0	360
				95	5000K	1405	115	34.0	360
				95	6500K	1377	113	34.0	360
14.5	PB16V03 V0	15.3	95	2700K	1664	109	34.0	450	
			95	3000K	1734	113	34.0	450	
			95	3500K	1778	116	34.0	450	
			95	4000K	1806	118	34.0	450	
			95	5000K	1824	119	34.0	450	
			95	6500K	1787	117	34.0	450	
	PB19V03 V0	18.36	95	2700K	1974	108	34.0	540	
			95	3000K	2057	112	34.0	540	
			95	3500K	2108	115	34.0	540	
			95	4000K	2142	117	34.0	540	
			95	5000K	2165	118	34.0	540	
			95	6500K	2121	116	34.0	540	
	PB26V03 V0	24.48	95	2700K	2574	105	34.0	720	
			95	3000K	2695	110	34.0	720	
			95	3500K	2766	113	34.0	720	
			95	4000K	2808	115	34.0	720	
			95	5000K	2837	116	34.0	720	
			95	6500K	2780	114	34.0	720	
22.0	PB38V03 V0	36.72	95	2700K	4071	111	34.0	1080	
			95	3000K	4262	116	34.0	1080	
			95	3500K	4375	119	34.0	1080	
			95	4000K	4442	121	34.0	1080	
			95	5000K	4487	122	34.0	1080	
			95	6500K	4397	120	34.0	1080	
	PB54V03 V0	55.188	95	2700K	5888	107	51.1	1080	
			95	3000K	6150	111	51.1	1080	
			95	3500K	6255	113	51.1	1080	
			95	4000K	6413	116	51.1	1080	
			95	5000K	6450	117	51.1	1080	
			95	6500K	6413	116	51.1	1080	

T_j = 85°C

Light Emitting Surface	Model Name	Dimension	Power(W)	CRI	CCT (K)	Luminous Flux (lm)	Efficacy(lm/w)	Forward Voltage (V)	Forward
		LxWxH (mm)		(min)		Typ	Typ	Typ	Current (mA)
9.8	PB06H09 V2	13.5*13.5*1.5	6.12	80	2700K	879	144	34.0	180
				80	3000K	920	150	34.0	180
				80	3500K	944	154	34.0	180
				80	4000K	958	157	34.0	180
				80	5000K	968	158	34.0	180
				80	6500K	949	155	34.0	180
	PB09H01 V1		9.18	80	2700K	1310	143	34.0	270
				80	3000K	1372	149	34.0	270
				80	3500K	1407	153	34.0	270
				80	4000K	1428	156	34.0	270
				80	5000K	1442	157	34.0	270
				80	6500K	1413	154	34.0	270
	PB13H01 V1		12.24	80	2700K	1713	140	34.0	360
				80	3000K	1782	146	34.0	360
				80	3500K	1826	149	34.0	360
				80	4000K	1854	151	34.0	360
				80	5000K	1873	153	34.0	360
				80	6500K	1836	150	34.0	360
14.5	PB16H01 V1	15.3	80	2700K	2218	145	34.0	450	
			80	3000K	2312	151	34.0	450	
			80	3500K	2370	155	34.0	450	
			80	4000K	2408	157	34.0	450	
			80	5000K	2432	159	34.0	450	
			80	6500K	2383	156	34.0	450	
	PB19H01 V1	18.36	80	2700K	2632	143	34.0	540	
			80	3000K	2742	149	34.0	540	
			80	3500K	2811	153	34.0	540	
			80	4000K	2856	156	34.0	540	
			80	5000K	2886	157	34.0	540	
			80	6500K	2828	154	34.0	540	
	PB26H01 V1	24.48	80	2700K	3432	140	34.0	720	
			80	3000K	3593	147	34.0	720	
			80	3500K	3688	151	34.0	720	
			80	4000K	3744	153	34.0	720	
			80	5000K	3782	154	34.0	720	
			80	6500K	3706	151	34.0	720	
22.0	PB38H01 V1	36.72	80	2700K	5428	148	34.0	1080	
			80	3000K	5683	155	34.0	1080	
			80	3500K	5833	159	34.0	1080	
			80	4000K	5922	161	34.0	1080	
			80	5000K	5982	163	34.0	1080	
			80	6500K	5862	160	34.0	1080	
	PB54H01 V0	55.188	80	2700K	7850	142	51.1	1080	
			80	3000K	8200	149	51.1	1080	
			80	3500K	8340	151	51.1	1080	
			80	4000K	8550	155	51.1	1080	
			80	5000K	8600	156	51.1	1080	
			80	6500K	8550	155	51.1	1080	

T_j = 85°C

Light Emitting Surface	Model Name	Dimension	Power(W)	CRI	CCT (K)	Luminous Flux (lm)	Efficacy(lm/w)	Forward Voltage (V)	Forward Current (mA)
		LxWxH (mm)		(min)		Typ	Typ	Typ	
9.8	PB06U10 V1	13.5*13.5*1.5	6.12	90	2700K	747	122	34.0	180
				90	3000K	782	128	34.0	180
				90	3500K	802	131	34.0	180
				90	4000K	814	133	34.0	180
				90	5000K	823	134	34.0	180
				90	6500K	807	132	34.0	180
	PB09U02 V1		9.18	90	2700K	1114	121	34.0	270
				90	3000K	1166	127	34.0	270
				90	3500K	1196	130	34.0	270
				90	4000K	1214	132	34.0	270
				90	5000K	1226	134	34.0	270
				90	6500K	1201	131	34.0	270
	PB13U02 V1		12.24	90	2700K	1456	119	34.0	360
				90	3000K	1515	124	34.0	360
				90	3500K	1552	127	34.0	360
90		4000K		1576	129	34.0	360		
90		5000K		1592	130	34.0	360		
90		6500K		1561	128	34.0	360		
14.5	PB16U02 V1	15.3	90	2700K	1885	123	34.0	450	
			90	3000K	1965	128	34.0	450	
			90	3500K	2015	132	34.0	450	
			90	4000K	2047	134	34.0	450	
			90	5000K	2067	135	34.0	450	
			90	6500K	2026	132	34.0	450	
	PB19U02 V1	18.36	90	2700K	2237	122	34.0	540	
			90	3000K	2331	127	34.0	540	
			90	3500K	2389	130	34.0	540	
			90	4000K	2428	132	34.0	540	
			90	5000K	2453	134	34.0	540	
			90	6500K	2404	131	34.0	540	
	PB26U02 V1	24.48	90	2700K	2917	119	34.0	720	
			90	3000K	3054	125	34.0	720	
			90	3500K	3135	128	34.0	720	
90			4000K	3182	130	34.0	720		
90			5000K	3215	131	34.0	720		
90			6500K	3150	129	34.0	720		
22.0	PB38U02 V1	36.72	90	2700K	4614	126	34.0	1080	
			90	3000K	4831	132	34.0	1080	
			90	3500K	4958	135	34.0	1080	
			90	4000K	5034	137	34.0	1080	
			90	5000K	5085	138	34.0	1080	
			90	6500K	4983	136	34.0	1080	
	PB54U02 V0	55.188	90	2700K	6673	121	51.1	1080	
			90	3000K	6970	126	51.1	1080	
			90	3500K	7089	128	51.1	1080	
			90	4000K	7268	132	51.1	1080	
			90	5000K	7310	132	51.1	1080	
			90	6500K	7268	132	51.1	1080	

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