



DOMINANT™
Opto Technologies
Innovating Illumination

www.dominant-semi.com

For A Better Tomorrow
Dominant Automotive Interior LED Solutions

● Your Location

○ Destination



800 m



Ahead turn right



DOMINANT Opto Technologies is one of the leading light-emitting diodes (LEDs) manufacturers in the world offering high-performance and innovative solutions for world-renowned car makers.

Established in 2000, DOMINANT has expanded globally, with 6 regional offices in close proximity to key design centers located in Europe, the United States, China, Japan, South Korea and India to provide professional sales and technical support.

Our comprehensive product portfolio ranges from low to high intensity LEDs with a wide range of color spectrum for interior applications e.g. instrument cluster, infotainment system, climate control, switches and ambient lighting as well as exterior applications e.g. head lamp, tail lamp, rear combination lamp, central high mounted stop lamp and license plate lamp. All of our products are qualified in accordance to the automotive qualification of AEC-Q102.

With extensive experience and expertise in research and technological development combined with state-of-the-art manufacturing facilities, DOMINANT is relentlessly pushing the boundaries of innovation without compromising on quality and reliability and has become a trusted and reliable partner for its customers.

For more information about DOMINANT, an IATF 16949 and ISO 14001 certified company, please visit our website at <http://www.dominant-semi.com>

SPEED
LIMIT
65

35mpg
current

Kaskade
Remember

60 MPH

Featherstone
Road 200ft

NAVIGATION
Turn By Turn



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Dome & Map Lighting

Head Up Display

Instrument Cluster

Infotainment System

Switches

HVAC

Shifter PRNDL

Ambient Lighting

Automotive Interior Application

Instrument Cluster, Infotainments System, HVAC, Shifter, Switches & etc



DomiLED

- Standard PLCC2 dimension of 3.2 x 2.8 x 1.8mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- 120° viewing angle

Part No.	IF	IV range (mcd)	Hyper Red 640nm	Super Red 632nm	Red 625nm	Amber 615nm	Orange 605nm	Yellow 587nm	Green 572nm	Pure Green 560nm	True Green 525nm	Blue 470nm	White	Warm White	Ice Blue	Sapphire Blue	InGaN Pure Green
DDx-CJS	2mA & 20mA	11.2 - 715	●	●	●	●	●	●	●	●							
DRx-NJS	20mA	285 - 900		●	●	●	●	●									
DDx-EKG	10mA	35.5 - 224									●	●					
DDx-HJS	20mA	180 - 1800									●	●					
DDx-DJG	10mA	71.5 - 335													●	●	●
DDW-EZJG	10mA	224 - 560											○				
DDx-LJG	20mA	1125 - 2850											○	●	●	●	●
DDZB-HKG	20mA	900 - 2240													●	●	
DDW-HJG	20mA	1800 - 4500											○				
DDW-HZKG	20mA	1400 - 3550											○				



Mini DomiLED

- Standard PLCC2 dimension of 2.0 x 1.4 x 1.3mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- 120° viewing angle

Part No.	IF	IV range (mcd)	Hyper Red 640nm	Super Red 632nm	Red 625nm	Amber 615nm	Orange 605nm	Yellow 587nm	Green 572nm	Pure Green 560nm	True Green 525nm	Blue 470nm	White	Warm White	Ice Blue	Sapphire Blue	InGaN Pure Green
DNx-AJS	2mA	5.6 - 22.4		●		●	●	●									
DNx-CJS	20mA	11.2 - 285	●	●	●	●	●	●	●	●							
DLx-NJS	20mA	330 - 1125		●	●	●	●										
DLx-GJS	20mA	520 - 1500		●	●	●	●	●									
DNx-MJS	30mA	715 - 2240		●	●	●	●	●									
DNx-DJS	10mA	112 - 1800									●	●					
DNx-DJG	5mA	28.5 - 285												●	●	●	●
DNW-EJG	5mA	28.5 - 285											○				
DNZP-DKG	5mA	71.5 - 140															●
DNx-LJG	10mA	560 - 1125													●	●	●
DNW-PJG	20mA	900 - 1800											○				
DFx-HZKG	20mA	560 - 2850											○	●	●	●	●



Power DomiLED

- Standard PLCC4 dimension of 3.2 x 2.8 x 1.8mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- 120° viewing angle

Part No.	IF	IV range (mcd)	Super Red 632nm	Red 625nm	Amber 615nm	Orange 605nm	Yellow 587nm	Pure Green 560nm	True Green 525nm	Blue 470nm	White	Warm White	Ice Blue	Sapphire Blue
DWx-HJS	50mA	1400 - 4500	●	●	●		●							
DWx-MJS	50mA	1800 - 5600	●	●	●	●	●							
DWx-LJG	30mA	355 - 4500							●	●				



Right Angle DomiLED

- Side view PLCC2 dimension of 4.2 x 1.3 x 1.2mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- 120° viewing angle

Part No.	IF	IV range (mcd)	Super Red 632nm	Red 625nm	Amber 615nm	Orange 605nm	Yellow 587nm	Green 572nm	Pure Green 560nm	True Green 525nm	Blue 470nm	White	Warm White	Ice Blue	Sapphire Blue
DSx-NSS	20mA	355 - 900	●	●	●	●	●								
DSx-MHS	40mA	840 - 2440	●		●		●								
DSW-DHG	10mA	224 - 450										○			
DSW-HSG	20mA	1400 - 3550										○			



S SpiceLED

- Standard 0603 dimension of 1.6 x 0.8 x 0.6mm
- Compliance to automotive standard; AEC-Q102 & AEC-Q101
- Support full range of brightness and color spectrum
- Qualified according to JEDEC moisture sensitivity Level 2
- Superior corrosion resistance
- Wide viewing angle 160°

Part No.	IF	IV range (mcd)	Super Red 632nm	Red 625nm	Amber 615nm	Orange 605nm	Yellow 587nm	Green 572nm	Pure Green 560nm	True Green 525nm	Blue 470nm	White
SSx-CLD	2mA & 20mA	7.2 - 180	●	●	●	●	●	●	●			
SSx-NLD	20mA	180 - 560	●	●	●	●	●					
SSx-HLD	2mA & 20mA	56 - 715								●	●	
SSx-DLD	5mA	28 - 71.5										○
SSx-LLG	5mA	56 - 140										○



DOMINANT, **FIRST** automotive LED supplier
to provide ZERO Binning solution



Single luminous
intensity and single
colour bin option for
interior white LEDs



Covers 5 different
brightness ranges for
various applications



Available in
Mini DomiLED
MiniPlus DomiLED
and DomiLED
packages



Wide coverage from
cool white to neutral
white according to
F1P3 colour box

Package	Mini DomiLED	Mini DomiLED	DomiLED	MiniPlus DomiLED	DomiLED
					
Part Number	DNW-EKG-F1P3	DNW-DKG-F1P3	DDW-DKG-F1P3	DFW-HZKG-F1P3	DDW-HJG-F1P3
Dimension (L x W x H)	2.0 x 1.4 x 1.3mm	2.0 x 1.4 x 1.3mm	3.2 x 2.8 x 1.8mm	2.0 x 1.8 x 1.3mm	3.2 x 2.8 x 1.8mm
Rated Current	5mA	5mA	10mA	20mA	20mA
Max Current	20mA	20mA	30mA	50mA	50mA
Luminous Intensity	35.5 – 56.0mcd	112.5 – 180.0mcd	285.0 – 450.0mcd	1125.0 – 1800.0mcd	1800.0 – 2850.0mcd
Viewing Angle	120°	120°	120°	120°	120°



MiniPlus DomiLED

Product Features:

- High brightness surface mount LED
- Superior corrosion resistant – Gold Lead Frame
- Embedded Zener diode
- Low thermal resistance
- Max operating temperature of 115°C
- Max storage temperature of 125°C

Applications:

- Automotive Interior: Switches & Indicator Backlight



NEW

MiniPlus DomiLED

DFZY-HZKG InGaN Yellow



- Rated Current : 30mA
- Voltage : Typ 3.1V
- Max Current : 50mA
- Luminous Intensity : 1125.0 - 2240.0mcd
- Color Bin : 5E & 5D (typ 589nm)
- Viewing Angle : 120°
- Dimension (L x W x H) : 2.0 x 1.8 x 1.3mm

RGB Ambient Lighting



SpicePlus RGB 2120



Multi DomiLED



SpicePlus RGB 3030




Right Angle RGB



seddLED3.0

Wide Range of RGB Solution

	SpicePlus RGB 2120	Multi DomiLED	Multi DomiLED	Multi DomiLED	Right Angle RGB	SpicePlus RGB 3030	SpicePlus RGB 3030	
								
Part Number	SKRTB-MHG	D6RTB-SKG	D6RTB-HKG	D6RTB-EKG	DSRTB-FKG	S6RTB-EHG	S6RTB-THG	
Dimension L x W x H (mm)	2.1 x 2.0 x 0.7	3.2 x 3.0 x 1.7	3.2 x 3.0 x 1.7 2D Barcode	3.2 x 3.0 x 1.7 2D Barcode	6.2 x 1.4 x 2.15	3.0 x 3.0 x 0.7	3.0 x 3.0 x 0.7	
Viewing Angle	120°	120°	120°	120°	120°	120°	120°	
Rated Current (mA)	20	20	20	20	20	150	200	
Max Current (mA)	50	50	50	50	50	200	250	
Luminous Intensity (mcd)	R	715 - 1125	650 - 1280	650 - 1280	560 - 1125	650 - 1280	18.1 - 30.6lm	23.5 - 39.8lm
	G	1300 - 2500	1400 - 2850	1400 - 2850	1400 - 2850	1400 - 2850	30.6 - 51.7lm	39.8 - 67.2lm
	B	180 - 355	224 - 450	224 - 450	200 - 350	224 - 450	6.3 - 10.7lm	8.2 - 13.9lm
Wavelength (nm)	R	619 - 629	619 - 629	619 - 629	623 - 632	619 - 629	619 - 629	619 - 629
	G	520 - 535	520 - 535	520 - 535	520 - 535	520 - 535	520 - 535	520 - 535
	B	450 - 460	459 - 471	459 - 471	447 - 456	459 - 471	458 - 466	458 - 466



The World's First High Power Automotive RGB LED

Serial communication with ISELED® compliance

		seddLED 3.0	seddLED 3.0	seddLED 3.0
Part Number		A3A-FKG-1400-1	A3A-FKG-1800-1	A3A-FKG-RGB-1
Dimension L x W x H (mm)		3.2 x 3.3 x 1.35	3.2 x 3.3 x 1.35	3.2 x 3.3 x 1.35
Viewing Angle		120°	120°	120°
Typ. Brightness		D65 White 1400.0 mcd	D65 White 1800.0 mcd	Pre-calibrated individual R.G.B LED
Typ. Luminous Intensity / mcd	R	392.6	492.0	400.0
	G	936.5	1213.0	1600.0
	B	70.9	95.0	250.0
Typ. Wavelength / nm	R	621.0	621.0	622.0
	G	527.0	527.0	525.5
	B	463.0	463.0	460.5



Human Centric Lighting

Daylight White
(~5500K CCT)



Good for reading

Natural White
(~4100K CCT)

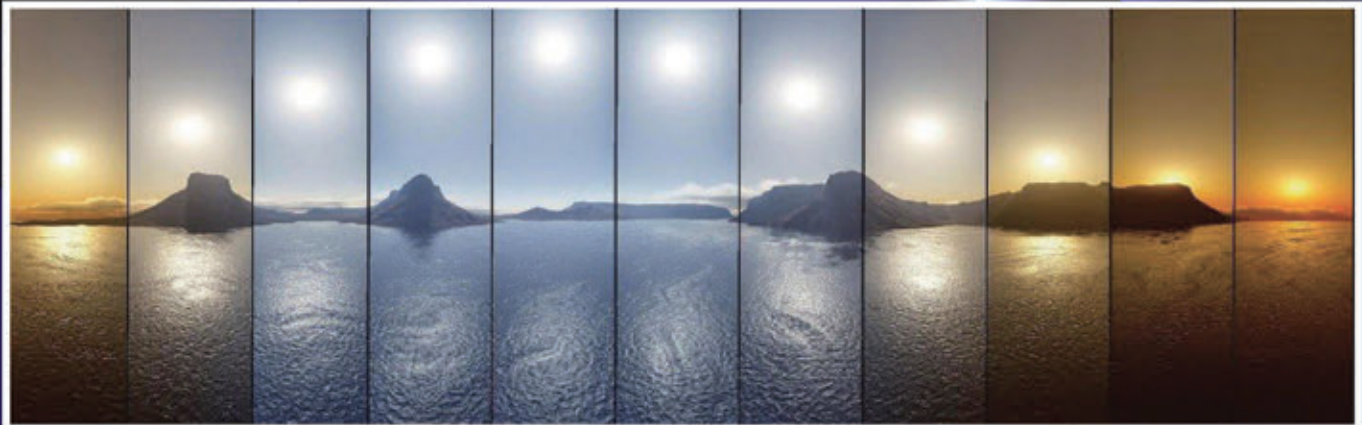


Good for work spaces

Warm White
(~3000K CCT)



Soft and comfort



CRI > 80

DomiLED

DDF-LJG



- Rated Current: 20mA
- Max Current: 30mA
- Intensity: 1400mcd-2850mcd
- Viewing Angle: 120°
- Rthjs: max 180K/W
- Dimension: 3.2x2.8x1.8mm

Power DomiLED

DWF-KZKG



- Rated Current: 60mA
- Max Current: 80mA
- Intensity: 3550mcd-7150mcd
- Viewing Angle: 120°
- Rthjs: max 130K/W
- Dimension: 3.2x2.8x1.8mm

Primax Plus

PQW-SSG (Cool White)

PQF-SSG (Warm White)



- Rated Current: 100mA
- Max Current: 180mA
- Flux: 30.6lm-51.7lm
- Viewing Angle: 120°
- Rthjs: max 45K/W
- Dimension: 3.7x3.5x0.8mm



CRI > 90

DomiLED

DDW-NJJ (Cool White)
DDF-NJJ (Warm White)



- Rated Current: 20mA
- Max Current: 30mA
- Intensity: 1125mcd-2240mcd
- Viewing Angle: 120°
- Rthjs: max 145K/W
- Dimension: 3.2x2.8x1.8mm

Power DomiLED

DWW-KJJ (Cool White)
DWF-KJJ (Warm White)



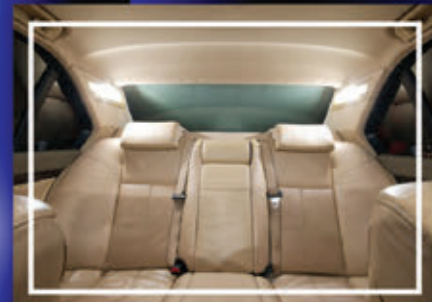
- Rated Current: 60mA
- Max Current: 80mA
- Intensity: 3550mcd-7150mcd
- Viewing Angle: 120°
- Rthjs: max 135K/W
- Dimension: 3.2x2.8x1.8mm

Primax Plus

MAW-EHJ (Cool White)
MAF-EHJ (Warm White)



- Rated Current: 150mA
- Max Current: 250mA
- Flux: 30.6lm-51.7lm
- Viewing Angle: 120°
- Rthjs: max 30K/W
- Dimension: 3.7x3.5x0.8mm



Head Up Display

PrimaxPlus

MAW-YZHG-CNEN



- Rated Current: 350mA
- Max Current: 500mA
- Flux : 100lm; typical
- Viewing Angle: 120°
- Rthjs Elec: typ 8.0K/W
- Dimension: 3.7x3.5x0.8mm

NagaJo 2025

J1W-PZHY-DMEM



- Rated Current: 1A
- Max Current: 1.5A
- Flux : 285lm; typical
- Viewing Angle: 120°
- Rthjs Elec: typ 3.0K/W
- Dimension: 2.5x2.0x0.8mm



SpicePlus 3014 (BLU)



Product Features:

- Ultra low height profile – 0.52mm
- Low thermal resistance
- Build-in ESD protection device
- Compliance to automotive standard, AEC-Q102

Part No.	SEW-WZSG-8P9Q-1	SEW-YZSG-9Q6S-1	**SEW-WZSH-7P7Q-1	**SEW-YZSH-8Q9R-1
Current, I_F	80mA	120mA	80mA	120mA
Flux (typ)	33.0lm	46.2lm	29.0lm	42.5lm
$R_{th_{jS}}$ (max)*	26 K/W	24 K/W	26 K/W	24 K/W
VA	120°	120°	120°	120°
Dimension	3.0 x 1.4 x 0.52 mm	3.0 x 1.4 x 0.52 mm	3.0 x 1.4 x 0.52 mm	3.0 x 1.4 x 0.52 mm

* $R_{th_{jS}}$ based on 60

** High NTSC solution for wide color gamut backlight display



Bevel-LED

Bevel-LED (BLU)

Product Features:

- Bevelled-edge design for FALD (Full Array Local Dimming) display
- 360° viewing angle
- High NTSC solution for wide color gamut backlight display
- Superior corrosion robustness, class A
- Qualified according to JEDEC moisture sensitivity level 1 (MSL 1)

Bevel-LED (BLU)



VBW-KHH

- Rated Current I_f : 15mA
- Max. Current I_f : 40mA
- Brightness (typ.): 11250 - 12625mcd; 9.6lm
- Max. operating temperature: 125°C
- Dimension: 1.5 x 1.5 x 1.2 mm

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DOMINANT™
Opto Technologies
Innovating Illumination

DOMINANT Head Quarter

DOMINANT Opto Technologies Sdn. Bhd.

📍 Lot 6, Batu Berendam, FTZ Phase III, 75350 Melaka, Malaysia

☎ +606 283 3566

📠 +606 283 0566

✉ sales@dominant-semi.com

DOMINANT China Sales Office

DOMINANT Opto Technologies (Shanghai) Co., Ltd

📍 Rm A305, Hongwell International Plaza, No. 1600 Zhong Shan (W) Rd, Xuhui District, 200235 Shanghai, China

☎ +86 21 5403 5655

📠 +86 21 5403 6055

✉ sales_china@dominant-semi.com

DOMINANT Korea Sales Office

DOMINANT Opto Technologies Korea Inc.

📍 6F, Dojin Bldg, 30, Samhaksa-ro Songpa-gu, Seoul, 05692, Korea

☎ +82-02-425-5203

📠 +82-02-425-5207

✉ sales_korea@dominant-semi.co.kr

DOMINANT Europe Sales Office

DOMINANT Semiconductors Europe GmbH

📍 Raiffeisenstr. 38, 74906 Bad Rappenau, Germany

☎ +49 (0) 7264-89010-0

📠 +49 (0) 7264-89010-29

✉ info@dominant-semi.eu

DOMINANT North America Sales Office

DOMINANT Opto Technologies North America Inc.

📍 550 Stepheson Highway, Suite 320, Troy, MI 48083

☎ +1(616) 893 5456

✉ sales_us@dominant-semi.us

DOMINANT India Sales Office

☎ +91-99990 24367

✉ sales@dominant-semi.com

DOMINANT Japan Sales Office

DOMINANT Opto Technologies Japan K.K.

📍 Three One Building 703, 3-20-5 ShinYokohama Kouhoku-ku, Yokohama City

#222-0033 Japan

☎ +81 45 624 9345

✉ m.nakamachi@dominant-semi.com

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Opto Technologies
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