

**DOMINANT™**  
**Opto Technologies**  
*Innovating Illumination*

# **DOMINANT Automotive Exterior LED Solutions**



[www.dominant-semi.com](http://www.dominant-semi.com)

**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>





# CONTENTS

## Rear Lighting

SpicePlus 2520	02
L-Spice	03
Angle-LED <i>coming soon</i>	04
Bevel-LED <i>coming soon</i>	05
Power Right Angle DomiLED	06
PrimaxPlus Bi-Color	07
Extreme Power DomiLED	08
Power DomiLED	09
DomiLED	10

## Front Lighting

NagaJo	12
SpicePlus 2520	13
PrimaxPlus Bi-Color	14



Rear Lighting

# SpicePlus 2520

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th, JS real}(typ)$	$I_F$	$I_F(max)$	$V_F$	$T_j(max)$
Amber	SVA-HHG	612-627nm	5.5lm	45K/W				
Super Red	SVS-HHG	627-637nm	3.22lm	45K/W	30mA	50mA	1.90-2.50V	135°C
Amber	SVA-MHG	612-627nm	10.7lm	25K/W				
Yellow	SVY-MHG	583-595nm	10.7lm	27K/W	50mA	70mA	2.05-2.65V	135°C
Super Red	SVS-MHG	627-637nm	6.3lm	25K/W				
Amber	SVA-SHG	612-627nm	48.5lm	17K/W				
Yellow	SVY-SHG	583-595nm	48.5lm	20K/W	200mA	250mA	2.05-2.65V	150°C
Super Red	SVS-SHG	627-637nm	28.7lm	17K/W				
Amber	SVA-TZHG	612-627nm	82.0lm	12K/W				
Yellow	SVY-TZHG	583-595nm	72.0lm	12K/W	350mA	500mA	2.0-2.75V	150°C
Super Red	SVS-TZHG	627-637nm	48.5lm	12K/W				
Blue	SVB-EZHG	450-465nm	12.2lm	18K/W	200mA	250mA	2.80-3.40V	150°C



2.5 x 2.0 x 0.7mm

# L-Spice

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}$ (typ)	$I_F$	$I_F(max)$	$V_F$	$T_j(max)$
■ Amber	C6A-MHG	612-627nm	14.0lm	35K/W				
■ Yellow	C6Y-MHG	583-595nm	14.0lm	35K/W	60mA	80mA	2.10-2.70V	125°C
■ Super Red	C6S-MHG	627-637nm	8.5lm	35K/W				
■ Amber	CAA-MHG	612-627nm	14.0lm	35K/W				
■ Yellow	CAY-MHG	583-595nm	14.0lm	35K/W	60mA	80mA	2.10-2.70V	125°C
■ Super Red	CAS-MHG	627-637nm	8.5lm	35K/W				



C6x-MHG  
2.8 x 3.0 x 1.96mm



CAx-MHG  
2.8 x 3.0 x 1.98mm

# Angle-LED

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}$ (typ)	$I_F$	$I_F(max)$	$V_F$	$T_j(max)$
■ Amber	* DQA-MHG	612-627nm	12.2lm	35K/W				
■ Yellow	* DQY-MHG	583-595nm	12.2lm	40K/W	60mA	80mA	1.95-2.7V	135°C
■ Super Red	* DQS-MHG	627-637nm	6.3lm	35K/W				



2.42 x 2.3 x 1.75mm

*\* Coming Soon*

# Bevel-LED

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}$ (typ)	$I_F$	$I_F(max)$	$V_F$	$T_j(max)$
■ Amber	* VBA-HHG	612-627nm	9.1lm	52K/W	50mA	80mA	1.90-2.5V	135°C
■ Super Red	* VBS-HHG	627-637nm	6.5lm	52K/W				



1.5 x 1.5 x 1.2mm

\* Coming Soon



# Power Right Angle DomiLED

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}(typ)$	$I_f$	$I_f(max)$	$V_f$	$T_j(max)$
■ Amber	D3A-MKG	612-627nm	10.7lm	90K/W				
■ Yellow	D3Y-MKG	583-595nm	10.7lm	90K/W	50mA	70mA	1.90-2.65V	125°C
■ Super Red	D3S-MKG	627-637nm	5.5lm	90K/W				
■ Amber	D3A-SKG	612-627nm	26.8lm	60K/W				
■ Yellow	D3Y-SKG	583-595nm	26.8lm	60K/W	140mA	200mA	1.90-2.50V	150°C
■ Super Red	D3S-SKG	627-637nm	13.9lm	60K/W				



4.0 x 4.3 x 2.75mm

# PrimaxPlus Bi-Color

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}(typ)$	$I_F$	$I_F(max)$	$V_F$	$T_j(max)$
Amber	MCAV-VZHG	612-627nm	30.6lm	30K/W	140mA	200mA	1.90-2.50V	150°C
Yellow		586-595nm	26.8lm					
Super Red	MCSY-VHZG	627-637nm	15.8lm	30K/W				
Yellow		586-595nm	26.8lm					
Amber	MCAA-VZHG	612-627nm	30.6lm	30K/W				
Amber		612-627nm	30.6lm					
Super Red	MCSS-VZHG	627-637nm	15.8lm	30K/W				
Super Red		627-637nm	15.8lm					
Yellow	MCYW-VZHG	586-595nm	26.8lm	30K/W				
White		L1P2	45.0lm	14K/W				
Amber	MCAV-TZHG	612-627nm	67.2lm	16K/W				
Yellow		586-595nm	45.0lm					
Super Red	MCSS-TZHG	627-637nm	45.2lm	16K/W	350mA	400mA	1.90-2.65V	150°C
Super Red		627-637nm	45.2lm					
Amber	MCAA-TZHG	612-627nm	67.2lm	16K/W				
Amber		612-627nm	67.2lm					
Super Red	MCSZY-VZHG	627-637nm	18.1lm	30K/W	140mA	200mA	1.90-2.50V	150°C
InGaN Yellow		F	36.0lm	14K/W				
Amber	MCAZY-VZHG	612-627nm	30.6lm	30K/W				
InGaN Yellow		F	36.0lm	14K/W				



3.7 x 3.5 x 0.8mm

# Extreme Power DomiLED

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}(typ)$	$I_F$	$I_F(max)$	$V_F$	$T_j(max)$
■ Amber	D6A-SKG	612-627nm	26.8lm	35K/W				
■ Yellow	D6Y-SKG	586-595nm	23.5lm	38K/W	140mA	200mA	1.90-2.50V	125°C
■ Super Red	D6S-SKG	627-639nm	13.9lm	35K/W				
■ Green	D6G-SKG	580-586nm	15.8lm	38K/W	140mA	200mA	1.90-2.65V	125°C



3.2 x 3.0 x 1.9mm

# Power DomiLED

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}(typ)$	$I_f$	$I_f(max)$	$V_f$	$T_j(max)$
■ Amber	DWA-HKG	612-627nm	8.2lm	80K/W	50mA	70mA	2.05-2.50V	125°C
■ Amber	DWA-MKG	612-627nm	10.7lm	80K/W				
■ Yellow	DWY-MKG	586-595nm	9.35lm	80K/W	50mA	70mA	1.90-2.65V	125°C
■ Super Red	DWS-MKG	627-639nm	5.5lm	80K/W				
□ White	DWW-EZKG	JKPL	8.3lm	130K/W	30mA	50mA	2.65-3.30V	125°C
□ White	DWW-KZKG	K1P2	16.3lm	100K/W				
■ InGaN Yellow	DWZY-KZKG	5E5F	13lm	100K/W	60mA	80mA	2.90-3.50V	150°C



3.2 x 2.8 x 1.8mm

# DomiLED

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}$ (typ)	$I_F$	$I_F(max)$	$V_F$	$T_j(max)$
■ Amber	DRA-HKS	612-627nm	6.7lm	130K/W	30mA	50mA	1.90-2.50V	125°C
■ Yellow	DRY-MKS	586-595nm	6.5lm	130K/W	30mA	50mA	1.80-2.50V	125°C
■ Super Red	DRS-MKS	627-639nm	3.9lm	130K/W	30mA	50mA	1.80-2.50V	125°C
□ White	DDW-HZKG	F1P3	6.9lm	120K/W	20mA	50mA	2.80-3.30V	125°C



3.2 x 2.8 x 1.8mm



Front Lighting

# NagaJo

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}(typ)$	$I_f$	$I_f(max)$	$V_f$	$T_j(max)$
□ White	JEW-EZHY	VNBN	55.4lm	19K/W	150mA	300mA	2.80-3.60V	150°C
□ White	JKW-TZHY	VNBN	440.0lm	5.3K/W	1A	1.5A	2.90-3.50V	150°C
■ InGaN Yellow	JKZY-TZHS	5H	290.0lm	6.5K/W	1A	1.2A	2.90-3.50V	150°C



JEW-EZHY  
1.2 x 1.6 x 0.79mm



JKW-TZHY  
1.5 x 1.9 x 0.79mm



JKZY-TZHS  
1.5 x 1.9 x 0.89mm

# SpicePlus 2520

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}(typ)$	$I_f$	$I_f(max)$	$V_f$	$T_j(max)$
□ White	SVW-EZHG	L2P2	63.0lm	16K/W	150mA	250mA	2.80-3.40V	150°C
■ InGaN Yellow	SVZY-EZHG	5J	55.0lm	16K/W	200mA			
□ White	SVW-FZHG	L2P2	32.0lm	16K/W	80mA	150mA	2.60-3.20V	150°C
■ InGaN Yellow	SVZY-FZHG	5J	25.0lm	16K/W	80mA			



2.5 x 2.0 x 0.7mm



# PrimaxPlus Bi-Color

Color	Part No.	$\lambda_d / C_x C_y$	Flux (typ)	$R_{th JS real}$ (typ)	$I_F$	$I_F(max)$	$V_F$	$T_j(max)$
<input checked="" type="checkbox"/> InGaN Yellow <input type="checkbox"/> White	MCZYW-VZHG	F	36.0lm	14K/W	140mA	200mA	2.80-3.40V	150°C
		L1P2	45.0lm					
<input checked="" type="checkbox"/> InGaN Yellow <input type="checkbox"/> White	MCZYW-KZHG	F	60.8lm	11K/W	250mA	300mA	2.90-3.40V	150°C
		L1P2	76.5lm					



3.7 x 3.5 x 0.8mm

Aug 2024



**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