

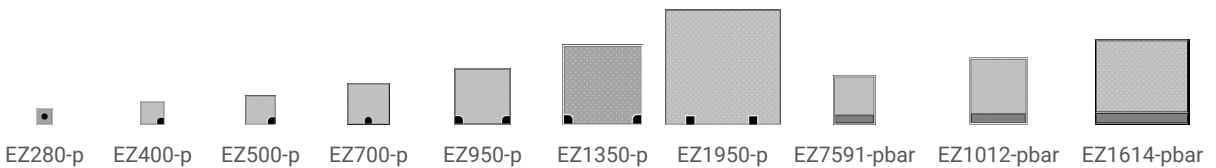
# LED CHIPS PORTFOLIO

- InGaN-based LED chips for Royal, Blue, Green and White-converted LEDs
- Vertical (1-wire), flip (no-wire) and lateral (2-wire) chip designs optimized for low, mid- and high-power applications
- Decades of success in a wide range of applications, including automotive, consumer, industrial and general lighting

January 2025 (FS43R0)

## EZ SERIES

- Low to high-power 2D “top-emitters” with a Lambertian radiation pattern



<span>Automotive</span> <span>BLU</span> <span>Gaming</span> <span>Lighting</span> <span>Indicators</span> <span>Industrial</span> <span>Medical</span> <span>Wearables</span> <span>Mobile</span> <span>Projection</span> <span>Video/Signs</span>										
P-N Junction Area (µm)	Product	Binning Current (mA)	Maximum Current (mA)	Royal		Blue		Green		ESD Rating
				DWL (nm)	Typ. Vf	DWL (nm)	Typ. Vf	DWL (nm)	Typ. Vf	
280 x 280	EZ280-p	20	100	445-465	2.9V	465-475	2.9V	520-535	2.7V	2kV
380 x 380	EZ400-p	175	200	445-465	3.2V	465-475	3.2V	520-535	3.1V	2kV
480 x 480	EZ500-p	175	300	445-465	3.1V	465-475	3.1V	520-535	3.0V	2kV
680 x 680	EZ700-p	350	750	445-465	3.2V	465-475	3.2V	520-535	3.1V	250V
930 x 930	EZ950-p	350	1500	445-465	3.0V	465-475	3.0V	520-535	3.0V	250V
1340 x 1340	EZ1350-p	350	1500	445-465	2.8V	---	---	---	---	250V
1940 x 1940	EZ1950-p	700	3000	445-465	3.05V	---	---	---	---	250V
700 x 700	EZ7591-pbar	1000	1625	445-465	3.25V	---	---	---	---	250V
990 x 990	EZ1012-pbar	1000	2500	445-455	3.1V	---	---	---	---	250V
1555 x 1190	EZ1614-pbar	1000	3000	445-455	3.25V	---	---	---	---	250V

## WZ SERIES

- White-converted high-power 2D “top-emitters” with a Lambertian radiation pattern



<span>Automotive</span> <span>BLU</span> <span>Gaming</span> <span>Lighting</span> <span>Indicators</span> <span>Industrial</span> <span>Medical</span> <span>Wearables</span> <span>Mobile</span> <span>Projection</span> <span>Video/Signs</span>										
P-N Junction Area (µm)	Product	Binning Current (mA)	Maximum Current (mA)	White		ESD Rating				
				CCT (K)	Typ. Vf					
480 x 480	WZ500-p	175	300	8000-2700	3.1V	2kV				
930 x 930	WZ950-p	350	1500	8000-2700	3.0V	250V				
1340 x 1340	WZ1350-p	350	1500	8000-2700	2.8V	250V				

## SA SERIES

- Low to high-power 3D “volume-emitters” designed for efficient, wire-free packaging solutions
- Epi-down, bond pad-down design design maximizes thermal efficiency
- Ideal for LED arrays and low profile packaging



Automotive		BLU	Gaming	Lighting	Indicators	Industrial	Medical	Wearables	Mobile	Projection	Video/Signs
P-N Junction Area (μm)	Product	Binning Current (mA)	Maximum Current (mA)	Royal		Blue		Green		ESD Rating	
				DWL (nm)	Typ. Vf	DWL (nm)	Typ. Vf	DWL (nm)	Typ. Vf		
120 x 360	SA1438	20	50	445-460	2.9V	465-475	2.8V	520-535	2.6V	2kV	
320 x 800	SA3280	150	250	445-460	3.0V	---	---	---	---	2kV	
1000 x 1000	SA1000	350	1500	445-455	2.9V	---	---	---	---	250V	
1160 x 1160	SA1150	700	1500	445-455	3.0V	---	---	---	---	250V	

## SR SERIES

- Versatile low to mid-power LED chips



Automotive		BLU	Gaming	Lighting	Indicators	Industrial	Medical	Wearables	Mobile	Projection	Video/Signs
P-N Junction Area (μm)	Product	Binning Current (mA)	Maximum Current (mA)	Royal		Blue		Green		ESD Rating	
				DWL (nm)	Typ. Vf	DWL (nm)	Typ. Vf	DWL (nm)	Typ. Vf		
130 x 210	SR1321	5	30	445-465	2.8V	465-475	2.8V	520-535	2.75V	2kV	
200 x 250	SR2025	20	30	460-465	3.35V	465-475	3.35V	---	---	2kV	
230 x 305	SR2130	20	50	445-465	2.8V	465-475	2.8V	520-535	2.8V	2kV	
535 x 840	SR5283	120	240	445-465	2.9V	465-475	2.9V	520-535	2.8V	2kV	
260 x 260	SR260	20	50	460-465	3.2V	465-475	3.2V	520-535	3.15V	2kV	
370 x 370	SR370	20	80	445-465	2.7V	465-475	2.7V	520-535	2.6V	2kV	
560 x 560	SR550	80	200	445-465	2.95V	465-475	2.95V	520-535	2.75V	2kV	

## SD SERIES

- A single, flexible, 1-wire vertical chip for a wide range of low brightness applications



SD280

Automotive		BLU	Gaming	Lighting	Indicators	Industrial	Medical	Wearables	Mobile	Projection	Video/Signs
P-N Junction Area (μm)	Product	Binning Current (mA)	Maximum Current (mA)	Royal		Blue		Green		ESD Rating	
				DWL (nm)	Typ. Vf	DWL (nm)	Typ. Vf	DWL (nm)	Typ. Vf		
270 x 270	SD280	10	50	455-465	2.75V	465-475	2.7V	520-535	2.65V	2kV	