

SANDER 
Lighting up the world one diode at a time.



BUILDING A BRIGHTER WORLD ONE DIODE AT A TIME

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WALLGREENS
LED VIDEO DISPLAY
TIMES SQUARE, NEW YORK



AURORA 37-STOREY BUILDING
LED VIDEO DISPLAY
SHANG HAI, CHINA

A HISTORY OF EXCELLENCE IN DISPLAY QUALITY DIODES

OUR NAME MAY NOT BE FAMOUS, BUT OUR PRODUCTS ARE WORLD FAMOUS

Sander diodes have been lighting up the world's most iconic LED displays and industrial applications for over 25 years. With billions of diodes installed in the world's most recognizable LED displays, Sander has been the trusted source for high-brightness diodes and LED modules for decades. Utilizing the latest in materials and process technologies, our visible light emitting diodes produce a long-lasting and stable luminous intensity with consistent color quality and high reliability. Chosen by world-class industrial, automotive, and display companies to light up their brand names, Sander diodes illuminate landmark LED applications recognized all around the planet—some can even be recognized from above the planet.



THE PROOF IS IN PLAIN SIGHT

Making display-quality diodes light up the right way requires a healthy dose of science, a good measure of technology, a dash of artistry and a *ton* of experience. For the last two decades, Sander Electronics has been developing diodes specifically for display industry applications. Our formidable clients demand a reliable, high-brightness diode with consistent *and persistent* color that would outlast the harsh heat, high humidity and constant power cycling inherent in an outdoor LED display system. Sander has delivered billions of through-hole and SMD diodes to our discriminating clients, and today our tradition of excellence in manufacturing is passed down to a new generation of high-brightness white diodes and a rainbow of new diode packages.



Sander Electronics earned their reputation for excellence in the trenches of Times Square, on the field at Dallas Stadium and upon the tallest towers of Hong Kong. The proof of our quality and innovative history can be seen around the world on giant LED displays in places like Las Vegas, Atlantic City, and across the dashboards of the jet airliners that take you to these famous landmarks.



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M&M
LED VIDEO DISPLAY
TIMES SQUARE, NEW YORK



THE FREMONT EXPERIENCE
ARCHITECTURAL CEILING DISPLAY
LAS VEGAS, NEVADA

THE BRAND BEHIND THE BRAND NAME



UNSURPASSED COLOR MATCHING TECHNOLOGY DEVELOPED IN THE CRUCIBLE

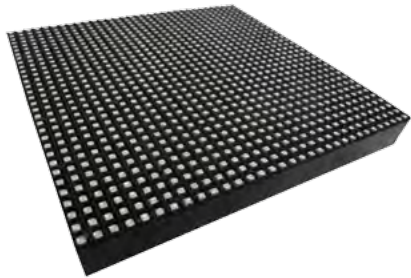
Sander is unsurpassed in providing color-matched display-quality diodes built to withstand the harsh weather conditions and constant use environment as required by large-format video displays. Not available anywhere else, Sander's proprietary color matching technology allows our engineers to match color, brightness and viewing angle to any existing diode sample to within $\pm 2\%$ accuracy.



Sander's research and development team was built in the crucible of Times Square—when the whole world is your stage, you have to get the colors right. No other LED application requires very-long-term color consistency, extreme heat stability, and high-brightness output as outdoor digital signage. When those “other” diodes fade out, turn yellow, and ultimately fail — it's time to call Sander.

ADVANCED OPTICAL GRADE EPOXY & SILICON ENCAPSULATION

Advanced optical encapsulation methods insure that Sander diodes are thermally, mechanically and chemically stable for the long haul. Our advanced optical grade epoxy and silicon encapsulation methods are optimized to prevent stress fractures, embedment stress and oxidation effects—all of which can lead to reduced transparency, cracking of chemical bonds, and diode failure.



Sander's unique humidity-controlled epoxy blending procedures ensure high moisture resistance preventing premature yellowing and degradation of light output. UVA and UVB inhibitors further prevent the damaging effects of direct sunlight—a critical factor for outdoor LED video displays and signage.

Our proprietary epoxy and silicon encapsulation methods ensure the best possible thermal characteristics and adhesion strength, meaning that Sander diodes will endure the rigors of extreme temperature fluctuations encountered in outdoor applications.

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AUTOMOTIVE
LED BRAKE LIGHTS



COMMERCIAL AIRLINE
INTERIOR LED LIGHTING

DRIVING THE LIGHTING REVOLUTION

EXCEEDING RIGOROUS STANDARDS FOR AUTOMOTIVE LIGHTING

Sander diodes are used in a wide variety of automotive and industrial transportation applications. From brake lights to dashboard lights, and from subway lights to the airport baggage pickup terminals, Sander diodes have been lighting the way for travelers for decades.



CONSISTENTLY COOL COLOR

Sander high-brightness white diodes produce a consistently bright and stable CRI, and are used in energy efficient LED lighting applications around the planet. Our unique manufacturing technologies produce highly stabilized colors that resist moisture, fading, and yellowing— meaning that your LED lights will remain bright white and trouble free for decades.

CUSTOM ELECTRONICS DESIGN AND ENGINEERING SUPPORT

Sander provides engineering support and custom electronic component design to our OEM and development partners. Our experienced team of hardware, software, optical and mechanical engineers is here to ensure the success of your custom electronic component projects, lighting designs and LED displays.



ABOUT SANDER ELECTRONICS

HIGH BRIGHTNESS LIGHT EMITTING DIODES

Sander diodes have been lighting up the world's most iconic LED displays and notable industrial applications for over 25 years. Sander's high-brightness through-hole and SMD diodes are available a wide range of shapes, sizes, viewing angles, colors and luminance standards suitable for high-brightness LED lighting and display applications.

OEM LED DISPLAY MODULES

Sander manufactures a complete line of LED display modules for OEM applications. Our portfolio of OEM customers is extensive, having built the LED modules for many name brand manufactures recognized around the world. Sander LED modules have been lighting up the world's most iconic LED displays and notable industrial applications for over 25 years. With billions of diodes installed in the world's most recognizable LED displays, Sander is the trusted OEM resource for high brightness LED display modules.

OEM LED ELECTRONIC AND LIGHTING COMPONENTS

Sander provides engineering support and custom electronic component design to our OEM and development partners. Our ability to assemble and manufacture custom LED components is unsurpassed. Because we manufacture diodes, we have a unique knowledge of assembly techniques not found anywhere else. Sander is currently the only LED assembler and manufacture in Taiwan.



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