Mimic In-House Article
Subject: Diode Boards
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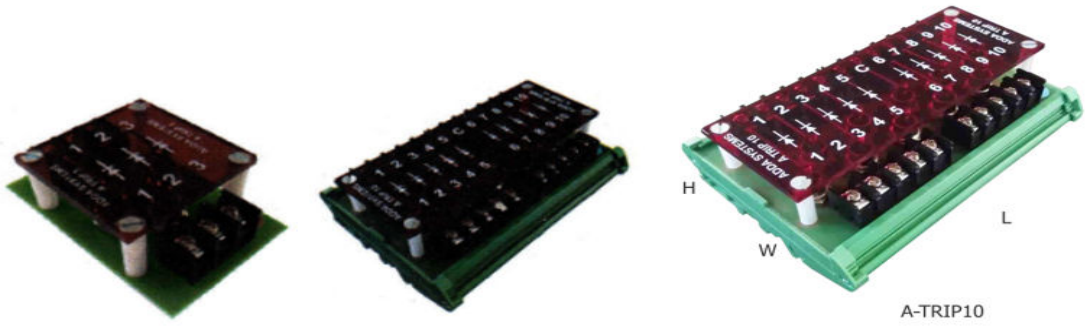
Diode Boards



Diodes act like one-way valves for electricity, allowing current to flow in the correct direction while preventing unwanted reverse currents. This helps protect equipment from electrical faults, improves system reliability, and ensures that trip signals are transmitted accurately when protection is required.

As such, Diode cards are essential components in industrial protection and control systems. They provide reliable trip signal steering and isolation for critical applications. Designed for use in ADDA systems, these cards are available in multiple configurations, including 3-way, 5-way, 6-way, 8-way, and 10-way variants, that allows for flexibility in a wide range of system requirements.

Trip Steering Diode Cards and CTSA Avalanche Trip Steering Diode Boards are engineered to combine multiple trip inputs into a single output signal that can be used to operate a trip relay. This functionality simplifies wiring, improves system integration, and ensures dependable fault response in protection circuits.

The boards are equipped with high-performance 25 Amp diodes rated at 1600 V VRRM (Peak Repetitive Reverse Voltage), providing excellent voltage withstanding capability and long-term reliability. They also offer a surge current rating of 0.34 kA Ifsm for a 10 ms waveform and an I^2t rating of 580 A^2s, enabling them to tolerate high transient fault currents without damage.

For ease of installation, the diode cards are designed for DIN rail mounting, making them suitable for modern control panels and switchgear assemblies. The 10-way versions are available in two mounting formats to accommodate different DIN rail configurations, including DIN W rail applications.

CTSA Avalanche Trip Steering Diode Boards incorporate avalanche diode technology to enhance transient protection and trip signal integrity. In addition, an optional fast-trip configuration is available on ADDA 8 systems, featuring built-in avalanche diodes for improved response speed and protection performance.

These diode cards provide a robust, compact, and reliable solution for trip signal management in industrial protection systems.

Call us for more information on our Diode Cards and ADDA systems.

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