



Understanding SG200 Series Gas Discharge Tubes for Modern Circuit Protection

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Why Every Engineer Should Know About GDT Technology

In the world of electronic protection devices, the SG200 series from Hamlin stands out like a superhero in a components bin. These surface-mount gas discharge tubes (GDTs) operate like miniature lightning rods, handling pulse currents up to 1kA while maintaining a compact 1812 footprint. Imagine something smaller than your thumbnail diverting enough energy to power a small neighborhood - that's the SG200's party trick.

Key Applications Making Waves in 2025

- 5G base station surge protection
- Electric vehicle charging infrastructure
- Smart grid monitoring systems
- Industrial IoT sensor networks

The Secret Sauce in SG200's Design

Unlike traditional ceramic disc protectors that crack under pressure (literally), the SG200's hermetically sealed gas chamber behaves like a bouncer at a nightclub. Below 200V? It maintains infinite resistance. When voltage spikes occur? Bam! It creates a low-impedance path faster than you can say "overvoltage transient."

Real-World Performance Metrics

Parameter	SG200 Spec	Industry Average
Response Time		

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