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Product Overview

NIS5232: 12 V Electronic Fuse

For complete documentation, see the data sheet.

The NIS5232 is a cost effective, resettable fuse which can greatly enhance the reliability of a hard drive or other circuit from both catastrophic and shutdown failures. It is designed to buffer the load device from excessive input voltage which can damage sensitive circuits. It also includes an overvoltage clamp circuit that limits the output voltage during transients but does not shut the unit down, thereby allowing the load circuit to continue operation. Two thermal options are available, latching and auto-retry.

Features

- Integrated Power Device
- Power Device Thermally Protected
- No External Current Shunt Required
- 9 V to 18 V Input Range
- 44 m Typical
- Internal Charge Pump
- Internal Undervoltage Lockout Circuit
- Internal Overvoltage Clamp
- ESD Ratings: Human Body Model (HBM); 1500 V
  Machine Model (MM); 200 V
- These Devices are PbFree and are RoHS Compliant

  For more features, see the data sheet

Applications

- Mother Board Power Management

End Products

- Hard Drives

Part Electrical Specifications

Product	Compliance	Status	Type	V_I Max (V)	$r_{DS(on)}$ Max (mΩ)	T_{SD} Typ (°C)	T_{hyst} Typ (°C)	Package Type
NIS5232MN1TXG	Pb-free Halide free	Active	Latch Off	18	55	175	45	DFN-10

For more information please contact your local sales support at www.onsemi.com.

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