

Product Overview

NIS5132: 12 V Electronic Fuse, eFuse

For complete documentation, see the data sheet.

The NIS5132 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.

Features

- Integrated Power Device
- Internal Latching Thermally Protected
- No External Current Shunt Required
- 9V to 18V Input Range
- Internal Charge Pump
- Internal Undervoltage Lockout Circuit
- Internal Overvoltage Clamp
- ESD Ratings: Human Body Model (HBM); 1500V, Machine Model (MM); 200V
- These are Pb-Free Devices
- Auto Retry Option

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 (m Ω)	T_{SD} Typ ($^{\circ}$ C)	T_{Hyst} Typ ($^{\circ}$ C)	Package Type
NIS5132MN1TXG	Pb-free	Active	Latch Off	18	55	175	45	DFN-10
	Halide free							
NIS5132MN2TXG	Pb-free	Active	Auto-Retry	18	55	175	45	DFN-10
	Halide free							
NIS5132MN3TXG	Pb-free	Active	Latch Off	18	55	175	45	DFN-10
	Halide free							

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

Created on: 2/22/2019