

Product Overview

NIS6452: Electronic Fuse, +3.3 V, +5 V

For complete documentation, see the data sheet.

The NIS64x2 is a cost effective, re-settable 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 and to protect the input side circuitry from reverse currents. It includes an over-voltage clamp circuit that limits the output voltage during transients but does not shut the unit down, thereby allowing the load circuit to continue its operation.

Features

- Fast Response Overvoltage Clamp Circuit
- Digital and Tristate Enable
- 42 mΩ Typical
- Integrated Reverse Current Protection
- Thermally Protected
- Integrated Soft-Start Circuit
- Internal Undervoltage Lockout Circuit

Benefits

- Limits the output voltage during transients but does not shut the unit down, thereby allowing the load circuit to continue its operation.
- Allows paralleling of eFuses as well as synchronizing turning on and off

Applications

- Hard Drives
- Solid State Drives
- Mother Boards

End Products

- Hard Drives and Solid State Drives

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Type	V _I Max (V)	r _{DS(on)} Max (mΩ)	T _{SD} Typ (°C)	T _{hyst} Typ (°C)	Package Type
NIS6432MT1TWG	0.3929	Pb-free Halide free non AEC-Q and PPAP	Active	Latch	14	60	150	25	WQFN-12
NIS6432MT2TWG	0.3929	Pb-free Halide free non AEC-Q and PPAP	Active	Auto-Retry	14	60	150	25	WQFN-12
NIS6452MT1TWG	0.4176	Pb-free Halide free non AEC-Q and PPAP	Active	Latch	14	60	150	25	WQFN-12
NIS6452MT2TWG	0.4176	Pb-free Halide free non AEC-Q and PPAP	Active	Auto-Retry	14	60	150	25	WQFN-12

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

Created on: 11/24/2020