

Vishay eFuse Smart Load Switch Selector Guide

Vishay's portfolio of eFuse smart load switches delivers compact, high-performance solutions for circuit protection, power management, and system control in demanding industrial, server, and automotive applications. The devices combine integrated protection and control features with options including reverse blocking and latch or auto-retry overcurrent-protection response.

Organized into separate industrial, server, and automotive sections, this selector guide covers Vishay eFuses with input-voltage ranges extending from 2.7 V to 28 V and continuous output currents from 3.5 A to 60 A. Available devices offer on-resistance as low as 0.6 mΩ and a variety of compact package options to meet different power, board-space, and application requirements.



Use the tables that follow to quickly identify the Vishay eFuse that best meets your system's voltage, current, protection, and package requirements.

RESOURCES

- For technical support, contact powerictechsupport@vishay.com
- Material categorization: for definitions of compliance, please see www.vishay.com/doc?91000



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Industrial applications

Industrial eFuses provide integrated protection for applications including industrial equipment, IoT devices, instrumentation, medical equipment and patient monitors, smart home systems, point-of-sale terminals, appliances, and power tools. Depending on the device, features include over- and undervoltage, overcurrent, and over-temperature protection; reverse current blocking; programmable current limiting and slew rate; transient overcurrent blanking; selectable overvoltage clamping; and circuit breaker or active current-clamping operation. Compact package options support space-constrained designs, with devices available in footprints as small as 2 mm x 2 mm.

Series	Input Voltage (Minimum) V	Input Voltage (Maximum) V	Continuous Output Current A	On-resistance at input voltage (Maximum) mΩ	Reverse Blocking N/A	OCP RESPONSE	Package/ Case N/A
SIP32433A	2.8	28	3.5	78	YES	Latch	DFN10-33
SIP32433B	2.8	28	3.5	78	YES	Auto Retry	DFN10-33
SIP32434A	2.8	28	6	33	NO	Latch	DFN10-33
SIP32434B	2.8	28	6	33	NO	Auto Retry	DFN10-33
SIP32435A	2.7	23	8	9.5	NO	Latch	TDFN10-22
SIP32435B	2.7	23	8	9.5	NO	Auto Retry	TDFN10-22
SIP32436A	2.7	23	8	9.5	NO	Latch	TDFN10-22
SIP32436B	2.7	23	8	9.5	NO	Auto Retry	TDFN10-22
SIP32437A	2.7	23	8	9.5	NO	Latch	TDFN10-22
SIP32437B	2.7	23	8	9.5	NO	Auto Retry	TDFN10-22
SIP32440A	2.8	28	6	33	NO	Latch	DFN10-33
SIP32440B	2.8	28	6	33	NO	Auto Retry	DFN10-33

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Automotive applications

Automotive eFuses are AEC-Q100 qualified for use in applications including infotainment, ADAS and automated driving systems, cameras and sensors, USB hubs, holdup power switching, and power muxing. The devices feature 5 % IMON / ILIM accuracy and wettable-flank packages for automotive assembly requirements, with available options including active reverse current blocking, accurate or programmable current limiting, overvoltage protection, and latch-off or auto-retry fault response.

Series	Input Voltage (Minimum) V	Input Voltage (Maximum) V	Continuous Output Current A	On-resistance at input voltage (Maximum) mΩ	Reverse Blocking N/A	OCF RESPONSE	Package/ Case N/A
SIPQ32433A	2.8	28	3.5	78	YES	Latch	DFN10-33
SIPQ32433B	2.8	28	3.5	78	YES	Auto Retry	DFN10-33
SIPQ32434A	2.8	28	6	33	NO	Latch	DFN10-33
SIPQ32434B	2.8	28	6	33	NO	Auto Retry	DFN10-33

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Server Applications

Server eFuses provide high-density power protection for servers, hot-swap systems, PC and add-in cards, disk drives and other storage applications, networking equipment, and optical modules. Depending on the device, features include ultra low on-resistance for reduced power loss, SOA protection for high startup currents, overcurrent blanking for improved system robustness, precision current monitoring, and adjustable slew rate. The portfolio includes parallelable and stand-alone solutions, as well as compact devices supporting applications where board space and power density are critical.

Series	Input Voltage (Minimum) V	Input Voltage (Maximum) V	Continuous Output Current A	On-resistance at input voltage (Maximum) mΩ	Reverse Blocking N/A	OCF RESPONSE	Package/Case N/A
SIC32305	4.5	25	30	1.2	NO	Latch	PowerPAK MLP28-44
SIC32306	4.5	25	30	1.2	NO	Auto Retry	PowerPAK MLP28-44
SIC32311	4.5	25	60	0.6	NO	Latch	PowerPAK MLP32-55
SIC32311E	4.5	25	60	0.6	NO	Latch	PowerPAK MLP32-55
SIP32435A	2.7	23	8	9.5	NO	Latch	TDFN10-22
SIP32435B	2.7	23	8	9.5	NO	Auto Retry	TDFN10-22
SIP32436A	2.7	23	8	9.5	NO	Latch	TDFN10-22
SIP32436B	2.7	23	8	9.5	NO	Auto Retry	TDFN10-22
SIP32437A	2.7	23	8	9.5	NO	Latch	TDFN10-22
SIP32437B	2.7	23	8	9.5	NO	Auto Retry	TDFN10-22

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