

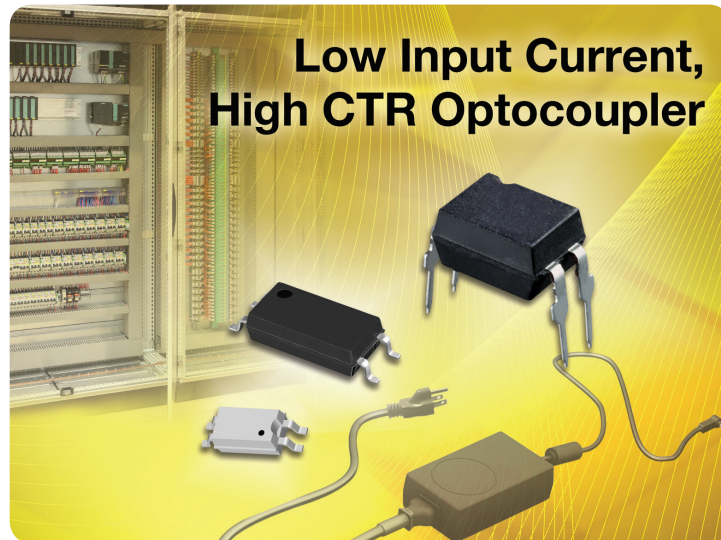


LOW INPUT CURRENT OPTOCOUPLEDERS

Vishay Semiconductors

Optoelectronics - Up to 5000 V_{RMS} of Voltage Isolation

4-Pin DIP and Mini-Flat Packages



KEY BENEFITS

- Offered in a variety of compact 4-pin packages
- DIP-4 and SOP-4L:
 - Provide 5000 V_{RMS} of voltage isolation
 - Creepage distance of ≥ 8 mm
 - Devices in DIP-4 package are end-stackable with 2.54 mm (100 mils) spacing
 - Eco-friendly “green” products
- SSOP-4:
 - Saves 40 % board space compared to a DIP-4 packages
 - Provides 3750 V_{RMS} of voltage isolation
 - Half lead pitch of 1.27 mm (50 mils)
- High current transfer ratios at low input currents down to 1 mA
- High collector emitter voltage V_{CEO} of 80 V
- Compliant to RoHS Directive 2002/95/EC and in accordance to WEEE 2002/96/EC
- Operating temperature up to + 110 °C

APPLICATIONS

- AC adapters
- Programmable logic controllers
- Industrial controls
- Switch mode power supplies
- Office equipment
- Telecom systems

RESOURCES

- Datasheets: See part number links on [page 2](#)
- Video: <http://www.vishay.com/videos/optoelectronics/low-input-current-optocouplers>
- Complete Optoelectronics product portfolio: <http://www.vishay.com/optoelectronics>
- For technical questions contact optocoupleranswers@vishay.com

One of the World's Largest Manufacturers of
Discrete Semiconductors and Passive Components



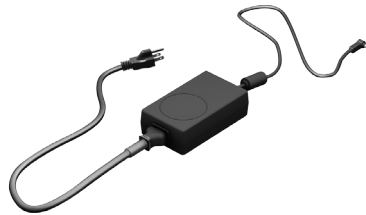
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Vishay's new VO617A, VO618A, VOL617A, VOL618A, VOS618A, and VOS628A optocouplers protect equipment users from electrical shocks and protect the microprocessors within these systems from being damaged by voltage spikes. The devices feature high current transfer ratios at low input currents of 1 mA for the VO618A, VOL618A, VOS618A, and VOS628A, and 5 mA for the VO617A and VOL617A. The compact DIP-4 and SOP-4L packages are capable of providing 5000 V_{RMS} of voltage isolation and offer creepage distance of ≥ 8 mm. For the DIP-4 package, this is achieved with Option 6, which complies with IEC 60950 (DIN VDE 0805) for reinforced insulation up to an operation voltage of 400 V_{RMS}. Devices in the DIP-4 package are also end-stackable with 2.54 mm (100 mils) spacing. The SSOP-4 package provides 3750 V_{RMS} of voltage isolation and features a half lead pitch of 1.27 mm (50 mils).

APPLICATIONS



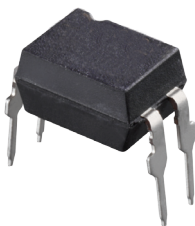
Isolation in:

- AC adapters
- Switch mode power supplies
- Programmable logic controllers
- Industrial controls
- Office equipment
- Telecom systems

PART NUMBER	INPUT CURRENT	PACKAGE		CTR RANGE (%)	ISOLATION VOLTAGE	CREEPAGE DISTANCE	TEMPERATURE RANGE
VO617A	5 mA	DIP-4		40 to 320	5000 V _{RMS}	≥ 8 mm*	- 55 °C to + 110 °C
VO618A	1 mA						
VOL617A	5 mA	SOP-4L Long Mini-Flat		40 to 320	5000 V _{RMS}	≥ 8 mm	- 55 °C to + 100 °C
VOL618A	1 mA						
VOS618A	1 mA	SSOP-4 Half-Pitch Mini-Flat		63 to 320	3750 V _{RMS}	-	- 40 °C to + 110 °C
VOS628A	1 mA, AC Input					-	

* Option 6 only

DIP-4



SOP-4L,
Long Mini-Flat



SSOP-4,
Half-Pitch Mini-Flat

