

## Product Overview

### FOD2712A: 8-PIN SOIC Error Amplifier Optocoupler

For complete documentation, see the data sheet.

The FOD2711A Optically Isolated Amplifier consists of the popular AZ431L precision programmable shunt reference and an optocoupler. The optocoupler is a gallium arsenide (GaAs) light emitting diode optically coupled to a silicon phototransistor. The reference voltage tolerance is 1%. The current transfer ratio (CTR) ranges from 100% to 200%. It is primarily intended for use as the error amplifier/reference voltage/optocoupler function in isolated AC to DC power supplies and dc/dc converters. When using the FOD2712A, power supply designers can reduce the component count and save space in tightly packaged designs. The tight tolerance reference eliminates the need for adjustments in many applications. The device comes in a compact 8-pin small outline package.

### Features

- Optocoupler, precision reference and error amplifier in single package
- 1.240V  $\pm$  1% reference
- CTR 100% to 200%
- 2,500V RMS isolation
- UL approval E90700, Volume 2

### Applications

- AC-DC Merchant Power Supply
- Consumer Appliances
- Industrial Motor

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	V <sub>REF</sub> Tolerance (%)	V <sub>REF</sub> (Min) (V)	V <sub>REF</sub> (Typ) (V)	V <sub>REF</sub> (Max) (V)	CTR (Min) (%)	CTR (Max) (%)	CTR tested @ I <sub>F</sub> (mA)	V <sub>CE(sat)</sub> (Max) (V)	BV <sub>CE0</sub> (Min) (V)	V <sub>ISO</sub> (Min) (V)	T <sub>OPR</sub> (Min) (°C)	T <sub>OPR</sub> (Max) (°C)	Package Type
FOD2712A	0.392	Pb-free	Active	1	1.228	1.24	1.252	100	200	10	0.4	70	2500	-40	85	SOIC-8
FOD2712AR2	0.434	Pb-free	Active	1	1.228	1.24	1.252	100	200	10	0.4	70	2500	-40	85	SOIC-8
FOD2712AR2V	0.4939	Pb-free	Active	1	1.228	1.24	1.252	100	200	10	0.4	70	2500	-40	85	SOIC-8
FOD2712AV	0.4267	Pb-free	Active	1	1.228	1.24	1.252	100	200	10	0.4	70	2500	-40	85	SOIC-8

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