

## Product Overview

### RV4145A: Ground Fault Circuit Interrupter (GFCI) Controller, Low Power

For complete documentation, see the data sheet.

The RV4145A is a low power controller for AC outlet ground fault interrupters. These devices detect hazardous grounding conditions, such as equipment (connected to opposite phases of the AC line) in contact with a pool of water and open circuits the line before a harmful or lethal shock occurs. Contained internally are a 26V zener shunt regulator, an op amp, and an SCR driver. With the addition of two sense transformers, a bridge rectifier, an SCR, a relay and a few additional components, the RV4145A will detect and protect against both hot wire to ground and neutral wire to ground faults. The simple layout and conventional design ensure ease of application and long-term reliability.

### Features

- No potentiometer required
- Direct interface to SCR
- Supply voltage derived from AC line - 26 V shunt
- Adjustable sensitivity
- Grounded neutral fault detection
- Meets UL943 standards
- 450  $\mu$ A quiescent current
- Ideal for 120 V or 220 V systems

### Applications

- Building & home control
- Consumer appliances

### Part Electrical Specifications

Product	Compliance	Status	Channels	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>T</sub> Max (mA)	V <sub>I</sub> Typ (V)	T <sub>A</sub> Min (°C)	T <sub>A</sub> Max (°C)	Package Type
RV4145AMT	Pb-free	Active			29.2	18	26	-35	85	SOIC-8
	Halide free									
RV4145AN	Pb-free Halide free	Active			29.2	18	26	-35	85	PDIP-8

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