

## Product Overview

### MOC256M: 8-Pin SOIC AC Input Phototransistor Output Optocoupler

For complete documentation, see the data sheet.

The MOC256M is an AC input phototransistor optocoupler. The device consists of two infrared emitters connected in anti-parallel and coupled to a silicon NPN phototransistor detector. It is designed for applications requiring the detection or monitoring of AC signals. The device is constructed with a standard SOIC-8 footprint.

### Features

- Bidirectional AC Input
- Protection Against Reversed DC Bias
- Guaranteed CTR Symmetry of 2:1 Maximum
- Convenient Plastic SOIC-8 Surface Mountable Package Style, with 0.050" Lead Spacing
- Safety and Regulatory Approvals:
  - UL1577, 2,500 VAC<sub>RMS</sub> for 1 Minute
  - DIN-EN/IEC60747-5-5, 565 V Peak Working Insulation Voltage

### Applications

- Consumer Appliances
- Industrial Motor

### Part Electrical Specifications

Product	Compliance	Status	Channels	CTR (Min) (%)	CTR (Max) (%)	CTR tested @ IF (mA)	BV <sub>CEO</sub> (Min) (V)	BV <sub>CB0</sub> (Min) (V)	BV <sub>ECO</sub> (Min) (V)	t <sub>r</sub> (Typ) (μs)	t <sub>f</sub> (Typ) (μs)	V <sub>ISO</sub> (Min) (V)	T <sub>OPR</sub> (Min) (°C)	T <sub>OPR</sub> (Max) (°C)	Package Type
MOC256M	Pb-free	Active	1	20	-	10	30	70	5	-	-	2500	-40	100	SOIC-8
MOC256R2M	Pb-free	Active	1	20	-	10	30	70	5	-	-	2500	-40	100	SOIC-8

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