

## Product Overview

### CNY17F2M: 6-Pin DIP High $BV_{CEO}$ Phototransistor Output Optocoupler

For complete documentation, see the data sheet.

The CNY17XM, CNY17FXM and MOC810XM devices consist of a gallium arsenide infrared emitting diode coupled with an NPN phototransistor in a dual in-line package.

### Features

- High  $BV_{CEO}$ : 70 V Minimum (CNY17XM, CNY17FXM, MOC8106M)
- Closely Matched Current Transfer Ratio (CTR)
- Minimizes Unit-to-Unit Variation
- Current Transfer Ratio In Select Groups
- Very Low Coupled Capacitance Along With No Chip-to-Pin 6 Base Connection for Minimum Noise Susceptability (CNY17FXM, MOC8106M)
- Safety and Regulatory Approvals:
  - UL1577, 4,170 VACRMS for 1 Minute
  - DIN-EN/IEC60747-5-5, 850 V Peak Working Insulation Voltage

### Applications

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

### Part Electrical Specifications

| Product      | Pricing (\$/Unit) | Compliance                       | Status | Channels | CTR (Min) (%) | CTR (Max) (%) | CTR tested @ IF (mA) | $V_{CE(sat)}$ (Max) (V) | $BV_{CEO}$ (Min) (V) | $BV_{CB}$ (Min) (V) | $BV_{EC}$ (Min) (V) | $t_{on}$ (Max) ( $\mu$ s) | $t_{off}$ (Max) ( $\mu$ s) | $V_{ISO}$ (Min) (V) | $T_{OPR}$ (Min) ( $^{\circ}$ C) | $T_{OPR}$ (Max) ( $^{\circ}$ C) | Package Type |
|--------------|-------------------|----------------------------------|--------|----------|---------------|---------------|----------------------|-------------------------|----------------------|---------------------|---------------------|---------------------------|----------------------------|---------------------|---------------------------------|---------------------------------|--------------|
| CNY17F2M     | 0.1619            | Pb-free<br>non AEC-Q<br>and PPAP | Active | 1        | 63            | 125           | 10                   | 0.4                     | 70                   | 70                  | 7                   | 2                         | 3                          | 4200                | -40                             | 100                             | PDIP-6       |
| CNY17F2SM    | 0.2351            | Pb-free<br>non AEC-Q<br>and PPAP | Active | 1        | 63            | 125           | 10                   | 0.4                     | 70                   | 70                  | 7                   | 2                         | 3                          | 4200                | -40                             | 100                             | PDIP-6       |
| CNY17F2SR2M  | 0.2595            | Pb-free<br>non AEC-Q<br>and PPAP | Active | 1        | 63            | 125           | 10                   | 0.4                     | 70                   | 70                  | 7                   | 2                         | 3                          | 4200                | -40                             | 100                             | PDIP-6       |
| CNY17F2SR2VM | 0.268             | Pb-free<br>non AEC-Q<br>and PPAP | Active | 1        | 63            | 125           | 10                   | 0.4                     | 70                   | 70                  | 7                   | 2                         | 3                          | 4200                | -40                             | 100                             | PDIP-6       |
| CNY17F2SVM   | 0.2551            | Pb-free<br>non AEC-Q<br>and PPAP | Active | 1        | 63            | 125           | 10                   | 0.4                     | 70                   | 70                  | 7                   | 2                         | 3                          | 4200                | -40                             | 100                             | PDIP-6       |
| CNY17F2TVM   | 0.1837            | Pb-free<br>non AEC-Q<br>and PPAP | Active | 1        | 63            | 125           | 10                   | 0.4                     | 70                   | 70                  | 7                   | 2                         | 3                          | 4200                | -40                             | 100                             | PDIP-6       |
| CNY17F2VM    | 0.2724            | Pb-free<br>non AEC-Q<br>and PPAP | Active | 1        | 63            | 125           | 10                   | 0.4                     | 70                   | 70                  | 7                   | 2                         | 3                          | 4200                | -40                             | 100                             | PDIP-6       |

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

Created on: 10/29/2020