

## Product Overview

### HCPL2611: 8-Pin DIP 10 Mbit/s Single-Channel High Speed Logic Gate Output Optocoupler

For complete documentation, see the data sheet.

The 6N137, HCPL2601, HCPL2611 single-channel and HCPL2630, HCPL2631 dual-channel optocouplers consist of a 850 nm AlGaAS LED, optically coupled to a very high speed integrated photo-detector logic gate with a strobable output. This output features an open collector, thereby permitting wired OR outputs. The coupled parameters are guaranteed over the temperature range of -40°C to +85°C. A maximum input signal of 5mA will provide a minimum output sink current of 13mA (fan out of 8). An internal noise shield provides superior common mode rejection of typically 10kV/μs. The HCPL2601 and HCPL2631 has a minimum CMR of 5kV/μs. The HCPL2611 has a minimum CMR of 10kV/μs.

### Features

- Very high speed – 10 MBit/s
- Superior CMR – 10 kV/μs
- Double working voltage-480V
- Fan-out of 8 over -40°C to +85°C
- Logic gate output
- Strobable output
- Wired OR-open collector
- U.L. recognized (File # E90700)

### Applications

- Energy Generation & Distribution
- Industrial Motor
- Uninterruptible Power Supply

### Part Electrical Specifications

| Product    | Compliance | Status | Data Rate (Mbps) | V <sub>CC</sub> (Max) (V) | V <sub>CC</sub> (Min) (V) | Channels | I <sub>FT</sub> (Max) (mA) | V <sub>OL</sub> (Max) (V) | I <sub>CCL</sub> (Max) (mA) | t <sub>PHL</sub> (Max) (ns) | t <sub>PLH</sub> (Max) (ns) | PWD (Max) (ns) | CMR (Max) (kV/μs) | V <sub>ISO</sub> (Min) (V) | T <sub>OPR</sub> (Min) (°C) | T <sub>OPR</sub> (Max) (°C) | Package Type |
|------------|------------|--------|------------------|---------------------------|---------------------------|----------|----------------------------|---------------------------|-----------------------------|-----------------------------|-----------------------------|----------------|-------------------|----------------------------|-----------------------------|-----------------------------|--------------|
| HCPL2611   | Pb-free    | Active | 10               | 5.5                       | 4.5                       | 1        | 5                          | 0.6                       | 13                          | 100                         | 100                         | 35             | 10                | 2500                       | -40                         | 85                          | PDIP-8       |
| HCPL2611S  | Pb-free    | Active | 10               | 5.5                       | 4.5                       | 1        | 5                          | 0.6                       | 13                          | 100                         | 100                         | 35             | 10                | 2500                       | -40                         | 85                          | PDIP-8 GW    |
| HCPL2611SV | Pb-free    | Active | 10               | 5.5                       | 4.5                       | 1        | 5                          | 0.6                       | 13                          | 100                         | 100                         | 35             | 10                | 2500                       | -40                         | 85                          | PDIP-8 GW    |
| HCPL2611V  | Pb-free    | Active |                  |                           | 4.5                       |          |                            |                           |                             |                             |                             |                |                   |                            |                             |                             | PDIP-8       |

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