

Product Overview

HCPL2601: 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
- Storable 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 _{CC} (Max) (V)	V _{CC} (Min) (V)	Channels	I _{FT} (Max) (mA)	V _{OL} (Max) (V)	I _{CCL} (Max) (mA)	t _{PHL} (Max) (ns)	t _{PLH} (Max) (ns)	PWD (Max) (ns)	CMR (Max) (kV/μs)	V _{ISO} (Min) (V)	T _{OPR} (Min) (°C)	T _{OPR} (Max) (°C)	Package Type
HCPL2601	Pb-free	Active	10	5.5	4.5	1	5	0.6	13	100	100	35	5	2500	-40	85	PDIP-8
HCPL2601S	Pb-free	Active	10	5.5	4.5	1	5	0.6	13	100	100	35	5	2500	-40	85	PDIP-8 GW
HCPL2601SD	Pb-free	Active	10	5.5	4.5	1	5	0.6	13	100	100	35	5	2500	-40	85	PDIP-8 GW
HCPL2601V	Pb-free	Active	10	5.5	4.5	1	5	0.6	13	100	100	35	5	2500	-40	85	PDIP-8
HCPL2601WV	Pb-free	Active	10	5.5	4.5	1	5	0.6	13	100	100	35	5	2500	-40	85	PDIP-8

For more information please contact your local sales support at www.onsemi.com.

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