

# Photocoupler

## Quick Reference Guide

### ■ (LTV4N Series)... General Purpose 4N Series

Model No.	Features	Package			* 1 Output		With Base Terminal	Isolation Voltage Viso (Vrms)	Collector-emitter Voltage V <sub>CEO</sub> (V)	Current Transfer Ratio CRT		Response Time tr		Turn-on Time ton	
		6-pin DIP	SPT	DPT	SPT	DPT				MIN. (%)	I <sub>r</sub> (mA)	TYP. (μs)	R <sub>L</sub> (Ω)	MAX. (μs)	I <sub>c</sub> (mA)
LTV4N25	General purpose type	○	○			○	2,500	30	20	10	3	100	—	—	
LTV4N26	General purpose type	○	○			○	1,500	30	20	10	3	100	—	—	
LTV4N27	General purpose type	○	○			○	1,500	30	10	10	3	100	—	—	
LTV4N28	General purpose type	○	○			○	500	30	10	10	3	100	—	—	
LTV4N32	High transfer efficiency type	○		○		○	2,500	30	500	10	—	—	5	50	
LTV4N33	High transfer efficiency type	○		○		○	1,500	30	500	10	—	—	5	50	
LTV4N35	General purpose type	○	○			○	3,550	30	100	10	—	—	3	2	
LTV4N37	General purpose type	○	○			○	1,500	30	100	10	—	—	3	2	

### ■ (LTV6N Series)... General Purpose 6N Series

Model No.	Features	Package			Output			With Base Terminal	Isolation Voltage Viso (Vrms)	Current Transfer Ratio CRT		Propagation Time		
		8-pin DIP	Photodiode + Transistor	Photodiode + Darlington transistor	Photodiode + Chipphoto IC	MIN. (%)	I <sub>r</sub> (mA)			t <sub>PHL</sub> TYP. (μs)	t <sub>PLH</sub> TYP. (μs)	R <sub>L</sub> (KΩ)		
LTV6N135	High speed, high noise reduction type	○	○			○	2,500	7	16	0.4	0.7	4.1		
LTV6N136	High speed, high noise reduction type	○	○			○	2,500	19	16	0.3	0.5	1.9		
LTV6N137	Ultra High speed, Low input current	○			○		2,500	700 (TYP)	5	45ns	45ns	350Ω		
LTV6N138	High transfer efficiency, High speed type	○		○		○	2,500	300	1.6	2	7	2.2		
LTV6N139	High transfer efficiency, High speed type	○		○		○	2,500	400	0.5	5	5	4.7		

### ■ (LTV700 Series)... 6-pin DIP Viso: 5kVrms Type

Model No.	Features	Package			* 1 Output		With Base Terminal	Isolation Voltage V <sub>iso</sub> (Vrms)	Collector-emitter Voltage V <sub>CEO</sub> (V)	Current Transfer Ratio CRT		Response Time tr	
		6-pin DIP	SPT	DPT	SPT	DPT				MIN. (%)	I <sub>r</sub> (mA)	TYP. (μs)	R <sub>L</sub> (Ω)
LTV702V	High collector-emitter voltage type	○	○			○	5,000	70	40	10	2	75	
LTV703V	High collector-emitter voltage type	○	○			○	5,000	70	40	10	4	100	
LTV713V	General purpose type	○	○			○	5,000	35	50	5	4	100	
LTV725V	High collector-emitter voltage high transfer	○		○		○	5,000	300	1,000	1	100	100	

### ■ (LTV800 Series)... 4-pin DIP or its Multi-channel Type

Model No.	Features	Package			* 1 Output		Isolation Voltage Viso (Vrms)	Current Transfer Ratio CRT		Response Time tr	
		4-pin DIP	8-pin DIP	16-pin DIP	SPT	DPT		MIN. (%)	I <sub>r</sub> (mA)	TYP. (μs)	R <sub>L</sub> (Ω)
LTV814	AC input type (1-channel)	○			○		5,000	20	±1	4	100
LTV817	General purpose type (1-channel)	○			○		5,000	50	5	4	100
LTV827	General purpose type (2-channel)		○		○		5,000	50	5	4	100
LTV847	General purpose type (4-channel)			○	○		5,000	50	5	4	100
LTV829	Symmetrical terminal configuration type (2 channel)		○		○		5,000	50	5	4	100
LTV849	Symmetrical terminal configuration type (4 channel)			○	○		5,000	50	5	4	100

\* 1 SPT: single transistor output  
DPT: Darlington transistor output