

T-41-83

Photocoupler

Quick Reference Guide

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

Model No.	Features	Package	* 1 Output		With Base Terminal	Isolation Voltage V _{iso} (Vrms)	Collector-emitter Voltage V _{CEO} (V)	Current Transfer Ratio CRT		Response Time tr		Turn-on Time ton	
		6-pin DIP	SPT	DPT				MIN. (%)	I _r (mA)	TYP. (μs)	R _L (Ω)	MAX (μs)	I _c (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 V _{iso} (Vrms)	Current Transfer Ratio CRT		Propagation Time		
		8-pin DIP	Photodiode + Transistor	Photodiode + Darlington transistor	Photodiode + Chippphoto IC			MIN. (%)	I _r (mA)	t _{PHL} TYP. (μs)	t _{PLH} TYP. (μs)	R _L (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 V_{iso}: 5kVrms Type

Model No.	Features	Package	* 1 Output		With Base Terminal	Isolation Voltage V _{iso} (Vrms)	Collector-emitter Voltage V _{CEO} (V)	Current Transfer Ratio CRT		Response Time tr	
		6-pin DIP	SPT	DPT				MIN. (%)	I _r (mA)	TYP. (μs)	R _L (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 V _{iso} (Vrms)	Current Transfer Ratio CRT		Response Time tr	
		4-pin DIP	8-pin DIP	16-pin DIP	SPT	DPT		MIN. (%)	I _r (mA)	TYP. (μs)	R _L (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