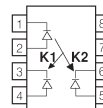
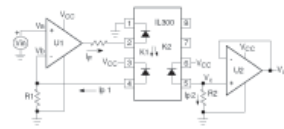


Linear Optocouplers

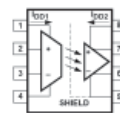
A unique optocoupler using two separate isolated photodiodes with matched characteristics, one of which is used as a feedback element. The combination of the linear photodiodes and the feedback concept enables construction of simple but accurate linear isolating circuits. Applications include switch mode power supply feedback and isolation of process control transducers. IL 300 has transfer gain (K3) of between 0,56 (min.) and 1,56 (max.).



Img.14



Img.15 Application circuit



Img.16

Part No.	Ord. No.	Freq. resp.	Non-linearity	I_f [mA]	t_r [μ s]	U_{ISOL} [V]	Pack.	Img.
S HCPL 7840-000E	6988	100kHz	< 0,004%	-	2-10	3750	DIP8	14
S IL 300	36038	200kHz	< 0,01%	60	1,75	5300	DIP8	15,16

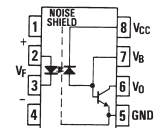
Digital Optocouplers

Part No.	Ord. No.	Ch.	BR[Mbps]	I_f [mA]	U_{CC} [V]	U_{ISOL} [V]	Note	Pack.	Img.
S 6 N 136	20269	1	1	25	15,1	2500	noise shield	DIP8	17
S 6 N 137	33968	1	10	20	5,5	2500	ultra high speed	DIP8	18
S H 11 L 1 - M	35812	1	1	60	15	5300	Schmitt výstup	DIP6	19
O HCPL 0453-000E	4368	1	1	-	-	1500	LSTTL/TTL	SO8	17
S HCPL 0600	40830	1	10	50	7	2500	LSTTL/TTL	SO8	18
S HCPL 0601	40831	1	10	50	7	2500	LSTTL/TTL	SO8	18
S HCPL 0630	41220	2	10	15	7	2500	LSTTL/TTL	SO8	21
S HCPL 2531	27282	2	1	25	30	2500	LSTTL/TTL	DIP8	20
S HCPL 2630	27283	2	10	15	5,5	2500	noise shield	DIP8	21
S HCPL 2631	36796	2	10	15	5,5	2500	noise shield	DIP8	21
O HCPL 2731	31984	2	10	0,5	5,5	2500	LSTTL/TTL	DIP8	21
O HCPL 7710	6416	1	12	10	5,5	3750	CMOS, 40ns	DIP8	23
S PC 400 TJ 0000F	2948	1	1	50	16	3750	OPIC	SO6	22
S PC 900 VONSZXF	22334	1	1	50	16	5000	TTL/LSTTL	DIP6	22

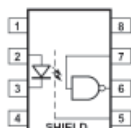
BR - Baud Rate

I_f - Average Forward Current

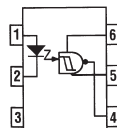
U_{ISOL} - Isolation Voltage input/output



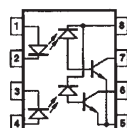
Img.17



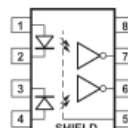
Img.18



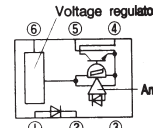
Img.19



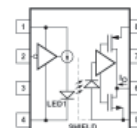
Img.20



Img.21



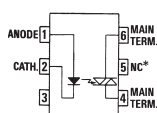
Img.22



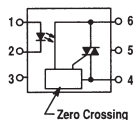
Img.23

Optotriacs

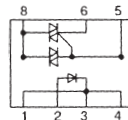
Part No.	Ord. No.	U_{OUT} [V]	I_{OUT} [mA]	I_{FT} [mA]	Rate [V/ μ s]	Zero switch.	U_{ISOL} [V]	Pack.	Img.
S MOC 3020	27286	400	1000	30	100	-	5300	DIP6	24
S MOC 3021-M	27287	400	1000	15	100	-	5300	DIP6	24
O MOC 3031	49225	250	1000	10	2000	+	7500	DIP6	25
S MOC 3041	29851	400	1000	15	2000	+	7500	DIP6	25
O MOC 3051	49226	600	1000	15	2000	-	7500	DIP6	24
O MOC 3061	45882	600	1000	15	1500	+	7500	DIP6	25
S MOC 3063	5504	600	1000	5	1500	+	5000	DIP6	25
O MOC 3081	49227	800	1000	15	1500	+	7500	DIP6	25
O MOC 3082 M	2057	800	1000	10	1500	+	7500	DIP6	25
O MOC 3083	2804	800	1000	5	1500	+	7500	DIP6	25
S PR 36 MF 12 NSZF	51207	600	600	10	100	-	4000	DIP8	26
S PR 36 MF 22 NSZ	50901	600	600	10	100	+	4000	DIP8	27



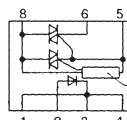
Img.24



Img.25



Img.26



Img.27

Alternative optotriacs: MOC 30xx = TLP 30xx = K 30xx