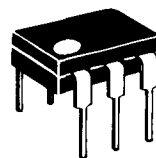
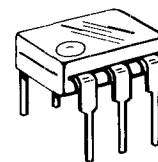


Optoisolators



Case 730A-02



An optoisolator consists of a gallium arsenide infrared emitting diode, IRED, optically coupled to a monolithic silicon photo-detector in a light-shielding package. Motorola offers a wide array of standard devices and encourages the use of special designs and selections for

special applications. All Motorola optoisolators are UL Recognized per File Number 54915 and VDE approved per Certificate Number 41853; **all have V_{ISO} rating of 7500 Vac(pk), exceeding all other industry standard ratings.**

Table 33. Transistor Output

Device	Current Transfer Ratio (CTR)			V_{ISO} Vac Pk	$V_{CE(sat)}$			$t_r, t_f, t_{on}, t_{off}^*$ Typ					$V_{(BR)CEO}$ Volts Min	V_F	
	% Min	@ I_F mA	V_{CE} Volts		Volts Max	@ I_F mA	I_C mA	μs	@ I_C mA	V_{CC} Volts	R_L Ω	I_F mA		Volts Max	@ I_F mA
TIL112	2	10	5	1500	0.5	50	2	2	2	10	100		20	1.5	10
TIL115	2	10	5	2500	0.5	50	2	2	2	10	100		20	1.5	10
TIL111	8	16	0.4	1500	0.4	16	2	5	2	10	100		30	1.4	16
TIL114	8	16	0.4	2500	0.4	16	2	5	2	10	100		30	1.4	16
4N27	10	10	10	1500	0.5	50	2	2/8	10	10			30	1.5	10
4N28	10	10	10	500	0.5	50	2	2/8	10	10			30	1.5	10
4N38,A	10	10	10	2500	1	20	4	0.8/7	10	10			80	1.5	10
H11A4	10	10	10	1500	0.4	10	0.5	2	2	10	100		30	1.5	10
4N25,A	20	10	10	2500	0.5	50	2	0.8/8	10	10			30	1.5	10
4N26	20	10	10	1500	0.5	50	2	0.8/8	10	10			30	1.5	10
H11A2	20	10	10	1500	0.4	10	0.5	2	2	10	100		30	1.5	10
H11A3	20	10	10	2500	0.4	10	0.5	2	2	10	100		30	1.5	10
H11A520	20	10	10	5656	0.4	20	2	5*	2*	10*	100*		30	1.5	10
H11AV3,A	20	10	10	7500	0.4	20	2	5*	2*	10*	100*		70	1.5	10
MCT2	20	10	10	2500(R)	0.4	16	2	10*/30*		5*	2k*	15*	30	1.5	20
MCT2E	20	10	10	3000(R)	0.4	16	2	2.6	2	10	100		30	1.5	20
TIL116	20	10	10	2500	0.4	15	2.2	5	2	10	100		30	1.5	60
H11A5	30	10	10	1500	0.4	10	0.5	2	2	10	100		30	1.7	10
CNY17-1	40-80	10	5	7500	0.4	10	2.5	5.6*/4.1*		5*	75*	10*	70	1.65	60
MCT271	45-90	10	10	3000(R)	0.4	16	2	4.9*/4.5*	2*	5*	100*		30	1.5	20
MOC8100	50	1	5		0.5	1	0.1	20*	2*	10*	100*		30	1.4	1
H11A1	50	10	10	2500	0.4	10	0.5	2	2	10	100		30	1.5	10
H11A550	50	10	10	5656	0.4	20	2	5*	2*	10*	100		30	1.5	10
H11AV2,A	50	10	10	7500	0.4	20	2	5*	2*	10*	100*		70	1.5	10
TIL117	50	10	10	2500	0.4	10	0.5	5	2	10	100		30	1.4	16
TIL126	50	10	10	5000	0.4	10	1	2	2	10	100		30	1.4	10
CNY17-2	63-125	10	5	5000	0.4	10	2.5	5.6*/4.1*		5*	75*	10*	70	1.65	60
MCT275	70-210	10	10	3000(R)	0.4	16	2	4.5*/3.5*	2*	5*	100*		80	1.5	20
MCT272	75-150	10	10	3000(R)	0.4	16	2	6*/5.5*	2*	5*	100*		30	1.5	20
4N35	100	10	10	3500	0.3	10	0.5	4*	2*	10*	100*		30	1.5	10
4N36	100	10	10	2500	0.3	10	0.5	4*	2*	10*	100*		30	1.5	10
4N37	100	10	10	1500	0.3	10	0.5	4*	2*	10*	100*		30	1.5	10
H11A5100	100	10	10	5656	0.4	20	2	5*	2*	10*	100*		30	1.5	10
CNY17-3	100-200	10	5	5000	0.4	10	2.5	5.6*/4.1*		5*	75*	10*	70	1.65	60
H11AV1,A	100-300	10	10	7500	0.4	20	2	5*	2*	10*	100*		70	1.5	10
MCT273	125-250	10	10	3000(R)	0.4	16	2	7.6*/6.6*	2*	5*	100*		30	1.5	20
MCT274	225-400	10	10	2500(R)	0.4	16	2	9.1*/7.9*	2*	5*	100*		30	1.5	20

(R) = RMS (D) = DC * t_{on}, t_{off}