

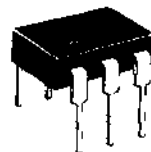
OPTOELECTRONICS (continued)

Couplers/Isolators

An optocoupler consists of a gallium arsenide infrared emitting diode, IRED, optically coupled to a monolithic silicon photo-detector/output device in a light-shielding package. Motorola offers a wide array of standard devices in the popular 6-pin DIP package and encourages the use of special designs and selections for special applications. All Motorola optocouplers are UL Recognized per File Number 54915.

Style 1:

- Pin 1. Anode
- 2. Cathode
- 3. NC
- 4. Emitter
- 5. Collector
- 6. Base



CASE 730A-01

Transistor Output — Style 1

Device	Current Transfer Ratio (CTR)			V _{ISO} Volts ac Peak		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	Industry	Motorola	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	2.0	10	5.0	1500	7500	0.5	50	2.0	2.0	10	100		20	1.5	10	
TIL115	2.0	10	5.0	2500	7500	0.5	50	2.0	2.0	10	100		20	1.5	10	
MCT26	6.0	10	10	2500(R)	7500	0.3	20	0.25	2.0	2.0	10		30	1.5	20	
TIL111	8.0	16	0.4	1500	7500	0.4	16	2.0	5.0	2.0	100		30	1.4	16	
TIL114	8.0	16	0.4	2500	7500	0.4	16	2.0	5.0	2.0	100		30	1.4	16	
4N27	10	10	10	1500	7500	0.5	50	2.0	2.0/8.0	10	10		30	1.5	10	
4N28	10	10	10	500	7500	0.5	50	2.0	2.0/8.0	10	10		30	1.5	10	
4N38,A	10	10	10	2500	7500	1.0	20	4.0	0.8/7.0	10	10		80	1.5	10	
H11A4	10	10	10	1500	7500	0.4	10	0.5	2.0	2.0	100		30	1.5	10	
IL-12	10	10	5.0	1000(D)	7500	0.5	50	2.0	2.0			10	20	1.5	10	
MOC1006	10	10	10		7500	0.5	50	2.0	2.0/8.0	10	10		30	1.5	10	
TIL124	10	10	10	5000	7500	0.4	10	1.0	2.0	2.0	100		30	1.4	10	
TIL153	10	10	10	3540	7500	0.4	10	1.0	2.0	2.0	100		30	1.4	10	
IL-74	12.5	16	5.0	1500(D)	7500	0.5	16	2.0	6.0*/25*	5.0*	2.4k*	16*	20	1.3	100	
4N25,A	20	10	10	2500	7500	0.5	50	2.0	0.8/8.0	10	10		30	1.5	10	
4N26	20	10	10	1500	7500	0.5	50	2.0	0.8/8.0	10	10		30	1.5	10	
H11A2	20	10	10	1500	7500	0.4	10	0.5	2.0	2.0	100		30	1.5	10	
H11A3	20	10	10	2500	7500	0.4	10	0.5	2.0	2.0	100		30	1.5	10	
H11A520	20	10	10	5656	7500	0.4	20	2.0	5.0*	2.0*	100*		30	1.5	10	
IL-1	20	10	10	2500(D)	7500	0.5	16	1.6	6.0*/25*	5.0*	2.4k*	16*	30	1.5	60	
MCT2	20	10	10	2500(R)	7500	0.4	16	2.0	10*/30*	5.0*	2.0k*	15*	30	1.5	20	
MCT2E	20	10	10	3000(R)	7500	0.4	16	2.0	2.6	2.0	100		30	1.5	20	
MCT2200	20	10	5.0	7500	7500	0.4	10	2.5	6.0*/5.5*	2.0*	100*		30	1.5	60	
MOC1005	20	10	10		7500	0.5	50	2.0	0.8/8.0	10	10		30	1.5	10	
TIL116	20	10	10	2500	7500	0.4	15	2.2	5.0	2.0	100		30	1.5	60	
TIL125	20	10	10	5000	7500	0.4	10	1.0	2.0	2.0	100		30	1.4	10	
TIL154	20	10	10	3540	7500	0.4	10	1.0	2.0	2.0	100		30	1.4	10	
H11A5	30	10	10	1500	7500	0.4	10	0.5	2.0	2.0	100		30	1.7	10	
MCT277	40	16	0.4	3000(R)	7500				15*	2.0*	5.0*	100*	30	1.5	20	
CNY17-1	40-80	10	5.0	7500	7500	0.4	10	2.5	5.6*/4.1*	5.0*	75*	10*	70	1.65	60	
MCT271	45-90	10	10	3000(R)	7500	0.4	16	2.0	4.9*/4.5*	2.0*	5.0*	100*	30	1.5	20	
MOC8100	50	1.0	5.0		7500	0.5	1.0	0.1	20*	2.0*	10*	100*	30	1.4	1.0	
H11A1	50	10	10	2500	7500	0.4	10	0.5	2.0	2.0	100		30	1.5	10	
H11A550	50	10	10	5656	7500	0.4	20	2.0	5.0*	2.0*	100		30	1.5	10	
TIL117	50	10	10	2500	7500	0.4	10	0.5	5.0	2.0	100		30	1.4	16	
TIL126	50	10	10	5000	7500	0.4	10	1.0	2.0	2.0	100		30	1.4	10	
TIL155	50	10	10	3540	7500	0.4	10	1.0	2.0	2.0	100		30	1.4	10	
CNY17-2	63-125	10	5.0	5000	7500	0.4	10	2.5	5.6*/4.1*	5.0*	75*	10*	70	1.65	60	
MCT275	70-210	10	10	3000(R)	7500	0.4	16	2.0	4.5*/3.5*	2.0*	5.0*	100*	80	1.5	20	
MCT272	75-150	10	10	3000(R)	7500	0.4	16	2.0	6.0*/5.5*	2.0*	5.0*	100*	30	1.5	20	
4N35	100	10	10	3500	7500	0.3	10	0.5	4.0*	2.0*	10*	100*	30	1.5	10	
4N36	100	10	10	2500	7500	0.3	10	0.5	4.0*	2.0*	10*	100*	30	1.5	10	
4N37	100	10	10	1500	7500	0.3	10	0.5	4.0*	2.0*	10*	100*	30	1.5	10	
H11A5100	100	10	10	5656	7500	0.4	20	2.0	5.0*	2.0*	10*	100*	30	1.5	10	
MCT2201	100	10	5.0	7500	7500	0.4	10	2.5	6.0*/5.5*	2.0*	10*	100*	30	1.5	60	
CNY17-3	100-200	10	5.0	5000	7500	0.4	10	2.5	5.6*/4.1*	5.0*	75*	10*	70	1.65	60	
MCT273	125-250	10	10	3000(R)	7500	0.4	16	2.0	7.6*/6.6*	2.0*	5.0*	100*	30	1.5	20	
CNY17-4	160-320	10	5.0	4000	7500	0.4	10	2.5	5.6*/4.1*	5.0*	75*	10*	70	1.65	60	
MCT274	225-400	10	10	2500(R)	7500	0.4	16	2.0	9.1*/7.9*	2.0*	5.0*	100*	30	1.5	20	

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