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一、英国 ISOCOM 光耦

光耦型号目录

4N25	Pg4	ILD1	Pg9	IS452	Pg14	ISP815-1	Pg3	MOC3060	Pg13	SFH620A-1	Pg2
4N26	Pg4	ILD2	Pg9	IS4N45	Pg7	ISP815-2	Pg3	MOC3061	Pg13	SFH620A-2	Pg2
4N27	Pg4	ILD5	Pg9	IS4N46	Pg7	ISP815-3	Pg3	MOC3062	Pg13	SFH620A-3	Pg2
4N28	Pg4	ILD74	Pg9	IS5	Pg4	*ISP817-PC817	Pg2	*MOC3063	Pg13	SFH628-2	Pg2
4N29	Pg6	ILQ1	Pg11	IS6003	Pg12	ISP824	Pg8	MOC3080	Pg13	SFH628-4	Pg2
*4N30	Pg6	ILQ2	Pg11	IS6005	Pg12	ISP825	Pg8	*MOC3081	Pg13	SFH628A-2	Pg3
4N31	Pg6	ILQ5	Pg11	IS6010	Pg12	ISP825-1	Pg8	*MOC3082	Pg13	SFH628-3	Pg2
4N32	Pg6	ILQ74	Pg11	IS6015	Pg12	ISP825-2	Pg8	*MOC3083	Pg13	SFH628A-3	Pg3
4N33	Pg6	IS1	Pg4	IS6030	Pg12	ISP825-3	Pg8	MOC5007	Pg18	SFH628A-4	Pg3
4N35	Pg4	IS121	Pg14	IS604	Pg6	ISP827	Pg8	MOC5008	Pg18	GN135	Pg20
4N36	Pg4	IS126	Pg14	IS607	Pg12	ISP844	Pg10	MOC5009	Pg18	GN136	Pg20
4N37	Pg4	*IS127-TLP127	Pg14	IS608	Pg12	ISP845	Pg10	MOC8020	Pg7	GN137	Pg21
4N38	Pg4	*IS181-TLP181	Pg14	IS609	Pg16	ISP845-1	Pg10	MOC8021	Pg7	GN138	Pg22
4N38A	Pg4	IS2	Pg4	IS620	Pg13	ISP845-2	Pg10	MOC8030	Pg7	GN139	Pg22
CNX62A	Pg5	IS201	Pg4	IS621	Pg13	ISP845-3	Pg10	*MOC8050	Pg7	ICPL3120	Pg24
CNX72A	Pg4	IS202	Pg4	IS622	Pg13	ISP847	Pg10	MOC8080	Pg6	ICPLW137	Pg26a
CNX82A	Pg5	IS203	Pg4	IS623	Pg13	ICPL452	Pg20	*MOC8101	Pg5	ICPLw2601	Pg26a
CNX83AG	Pg4	IS204	Pg4	IS660	Pg7	ICPL453	Pg20	MOC8102	Pg5	ICPLw2611	Pg26a
*CNY17-1	Pg4	IS204-1	Pg4	IS661	Pg7	ISQ201	Pg11	MOC8103	Pg6	ICPL2601	Pg26a
*CNY17-2	Pg4	IS204-2	Pg4	IS725	Pg7	ISQ202	Pg11	MOC8104	Pg6	ICPL2611	Pg26a
*CNY17-3	Pg4	IS204-3	Pg4	IS733	Pg6	ISQ203	Pg11	MOC8105	Pg6	ICPL600	Pg26a
CNY17-4	Pg4	IS205	Pg5	IS74	Pg4	ISQ204	Pg11	MOC8106	Pg6	ICPLW601	Pg26a
CNY17-5	Pg4	IS205-1	Pg5	IS829	Pg9	ISQ204-1	Pg11	MOC8107	Pg6	ICPLW611	Pg26a
CNY17F-1	Pg5	IS205-2	Pg5	IS849	Pg11	ISQ204-2	Pg11	MOC8108	Pg6	ICPL0630	Pg26a
CNY17F-2	Pg5	IS205-3	Pg5	ISD1	Pg9	ISQ204-3	Pg11	MOC8111	Pg6	ICPL0631	Pg26a
CNY17F-3	Pg5	IS206	Pg5	ISD2	Pg9	ICPL0452	Pg20	MOC8112	Pg6	ICPL0661	Pg26a
CNY17F-4	Pg5	*IS2701-1	Pg14	ISD201	Pg9	ICPL0453	Pg20	MOC8113	Pg6	ICPL0600	Pg21
CNY17F-5	Pg5	IS2702-1	Pg14	ISD202	Pg9	IS281	Pg16	*PS2501-1	Pg2	ICPL0601	Pg21
CNY35	Pg6	IS2705-1	Pg14	ISD203	Pg9	IS2801-1	Pg16	*PS2501-2	Pg8	ICPL0611	Pg21
CNY75A	Pg4	IS2732-1	Pg14	ISD204	Pg9	ISL1102	Pg16	PS2501-4	Pg10	ICPL2630	Pg21
CNY75B	Pg4	IS3009	Pg12	ISD204-1	Pg9	IS281-4	Pg16	PS2502-1	Pg3	ICPL2631	Pg21
CNY75C	Pg4	IS3010	Pg12	ISD204-2	Pg9	IS2801-4	Pg16	*PS2502-2	Pg8	ICPL2661	Pg21
CQY80	Pg4	IS3011	Pg12	ISD204-3	Pg9	IS3-4	Pg16	PS2502-4	Pg10	ICPLW135	Pg26a
*H11A1	Pg4	IS3012	Pg12	ISD5	Pg9	MCT2	Pg4	PS2505-1	Pg2	ICPLW136	Pg26a
H11A2	Pg4	IS3020	Pg12	ISPD60	Pg7	MCT210	Pg4	PS2505-2	Pg8	ICPL0500	Pg20
H11A3	Pg4	IS3021	Pg12	ISPD61	Pg7	MCT2200	Pg4	PS2505-4	Pg10	ICPL0501	Pg20
H11A4	Pg4	IS3022	Pg12	ISPD62	Pg7	MCT2201	Pg4	SFH600-0	Pg5	ICPL0530	Pg26a
H11A5	Pg4	IS3023	Pg12	ISPD63	Pg7	MCT2202	Pg5	SFH600-1	Pg5	ICPL0531	Pg26a
H11AA1	Pg6	IS3030	Pg12	ISPD64	Pg7	MCT270	Pg5	SFH600-2	Pg5	ICPL2530	Pg20
H11AA2	Pg6	IS3031	Pg12	ISPD65	Pg7	MCT271	Pg5	SFH600-3	Pg5	ICPL2531	Pg20
H11AA3	Pg6	IS3032	Pg12	ISD74	Pg9	MCT272	Pg5	SFH600-4	Pg5	ICPL4502	Pg20
H11AA4	Pg6	IS3033	Pg12	ISP321-2	Pg8	MCT2E	Pg4	SFH601-1	Pg5	ICPL4503	Pg20
H11AV1	Pg4	IS3040	Pg12	ISP321-4	Pg10	MCT6	Pg9	SFH601-2	Pg5	*TLP321-SP321-1	Pg2
H11AV2	Pg4	IS3041	Pg12	*ISP521-1-TLP521-1	Pg2	MCT81	Pg9	SFH601-3	Pg5	TLP321-2	Pg8
H11AV3	Pg4	IS3042	Pg12	*ISP521-2-TLP521-2	Pg8	MCT82	Pg9	SFH601-4	Pg5	TLP321-4	Pg10
H11B1	Pg6	IS3043	Pg12	*ISP521-4-TLP521-4	Pg10	MCT86	Pg9	SFH609-1	Pg9	*TLP521	Pg2
H11B2	Pg6	IS3051	Pg12	ISP620-1	Pg2	MOC3009	Pg12	SFH609-2	Pg5	*TLP521-2	Pg8
H11B3	Pg6	IS3052	Pg12	ISP620-2	Pg8	MOC3010	Pg12	SFH609-3	Pg5	*TLP521-4	Pg10
H11G1	Pg7	IS3060	Pg12	ISP620-4	Pg10	MOC3011	Pg12	SFH609-4	Pg5	*TLP620-1	Pg3
H11G2	Pg7	IS3061	Pg12	ISP621-1	Pg2	MOC3012	Pg12	*SFH615A-1	Pg2	TLP620-2	Pg8
H11G3	Pg7	IS3062	Pg13	ISP621-2	Pg8	MOC3020	Pg12	*SFH615A-2	Pg2	TLP620-4	Pg10
H11J1	Pg12	IS3063	Pg13	ISP621-4	Pg10	MOC3021	Pg12	*SFH615A-3	Pg2	TLP621	Pg2
H11J2	Pg12	IS3080	Pg13	ISP624-1	Pg2	MOC3022	Pg12	*SFH615A-4	Pg2	TLP621-2	Pg8
H11J3	Pg12	IS3081	Pg13	ISP624-2	Pg8	MOC3023	Pg12	SFH617A-1	Pg2	TLP621-4	Pg10
H11J4	Pg12	IS3082	Pg13	ISP624-4	Pg10	MOC3030	Pg13	SFH617A-2	Pg2	TLP624	Pg2
H11J5	Pg12	IS3083	Pg13	ISP626-1	Pg2	MOC3031	Pg13	SFH617A-3	Pg2	TLP624-2	Pg8
*H11L1	Pg18	IS354	Pg14	ISP626-2	Pg8	MOC3032	Pg13	SFH617A-4	Pg2	TLP624-4	Pg10
H11L2	Pg18	IS354A	Pg14	ISP626-4	Pg10	MOC3033	Pg13	*SFH618A-2	Pg2	TLP626-1	Pg3
H11L3	Pg18	IS355	Pg14	ISP627-1	Pg3	MOC3040	Pg13	SFH618A-3	Pg2	TLP626-2	Pg8
H11L4	Pg18	*IS357-PC357	Pg14	ISP814	Pg2	*MOC3041	Pg13	SFH618A-4	Pg2	TLP626-4	Pg10
IL1	Pg4	*IS357A	Pg14	ISP814-1	Pg2	*MOC3042	Pg13	SFH618A-5	Pg2	TLP627-1	Pg3
IL2	Pg4	IS357B	Pg14	ISP814-2	Pg2	*MOC3043	Pg13	SFH620-1	Pg2		
IL5	Pg4	IS357C	Pg14	ISP814-3	Pg2	MOC3051	Pg12	SFH620-2	Pg2		
IL74	Pg4	IS357D	Pg14	ISP815	Pg3	MOC3052	Pg12	SFH620-3	Pg2		

备注：打“*”为常卖型号，且常年备大量现货

4 个脚 DIP 和 SM 光耦



晶体管输出型

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BE} $I_E = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 0.5\text{mA}$ Min (V)	$I_{CEO(DW)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 8\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)	
ISP321-1	Single channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4	
ISP521-1		50-600				55			
ISP621-1		50-600				35			
ISP817		50-600				55			
ISP624-1		100-1200 ¹				80			
PS2501-1		80-600							
SFH615A-1		40-80/13 ($I_F = 10\text{mA}/1\text{mA}$)				70	50 ($V_{CE} = 10\text{V}$)	0.4($I_F = 10\text{mA}$) ($I_C = 2.5\text{mA}$)	
SFH615A-2		63-125/22 ($I_F = 10\text{mA}/1\text{mA}$)					100 ($V_{CE} = 10\text{V}$)		
SFH615A-3		100-200/34 ($I_F = 10\text{mA}/1\text{mA}$)							
SFH615A-4		160-320/56 ($I_F = 10\text{mA}/1\text{mA}$)							
SFH617A-1		40-80/13 ($I_F = 10\text{mA}/1\text{mA}$)					50 ($V_{CE} = 10\text{V}$)		
SFH617A-2		63-125/22 ($I_F = 10\text{mA}/1\text{mA}$)				100 ($V_{CE} = 10\text{V}$)			
SFH617A-3		100-200/34 ($I_F = 10\text{mA}/1\text{mA}$)							
SFH617A-4		160-320/56 ($I_F = 10\text{mA}/1\text{mA}$)							
SFH618A-2		63-125 ¹				55	50 ($V_{CE} = 10\text{V}$)	0.4($I_F = 1\text{mA}$) ($I_C = 0.32\text{mA}$)	
SFH618A-3		100-200 ¹						0.4($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)	
SFH618A-4		160-320 ¹						0.4($I_F = 1\text{mA}$) ($I_C = 0.8\text{mA}$)	
SFH618A-5		250-500 ¹						0.4($I_F = 1\text{mA}$) ($I_C = 1.25\text{mA}$)	
TIL191		20					35	100 ($V_{CE} = 10\text{V}$)	0.4($I_F = 5\text{mA}$) ($I_C = 1\text{mA}$)
TIL191A		50							
TIL191B		100							
TLP321		50-600							
TLP521		50-600				80			0.4
TLP621		50-600							
TLP624		100-1200 ¹							

Note 1 Test Condition: $I_f = 1\text{mA}$ $V_{CE} = 0.5\text{V}$

交流输入型

Part Number	Features	Current Transfer Ratio $I_f = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_f = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DW)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP620-1	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	40-125 ¹	7.5(pk) 5.3(rms)	50mA	1.4	55 ($I_C = 0.5\text{mA}$)	100 ($V_{CE} = 24\text{V}$)	0.4($I_f = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)
ISP626-1		100 ² 50 ³				35		0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISP814		20-300 ⁴				70	100	0.2($I_f = \pm 20\text{mA}$) ($I_C = 1\text{mA}$)
ISP814-1		80 ⁵						0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.8\text{mA}$)
ISP814-2		40/80 ⁵						0.4($I_f = \pm 0.5\text{mA}$) ($I_C = 0.2\text{mA}$)
ISP814-3		20/40/80 ⁵						0.4($I_f = \pm 0.25\text{mA}$) ($I_C = 0.05\text{mA}$)
PS2505-1		80-600				80	100 ($V_{CE} = 40\text{V}$)	0.3($I_f = \pm 10\text{mA}$) ($I_C = 2\text{mA}$)
SFH620-1		40-125				70	50	0.4($I_f = \pm 10\text{mA}$) ($I_C = 2.5\text{mA}$)
SFH620-2		63-200					100	
SFH620-3		100-320					50	
SFH620A-1		40-125					100	
SFH620A-2		63-200				55	200 ($V_{CE} = 10\text{V}$)	0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)
SFH620A-3		100-320						0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.8\text{mA}$)
SFH628-2		63-200 ²						
SFH628-3		100-320 ²						
SFH628-4		160-500 ²						0.4($I_f = \pm 1\text{mA}$) ($I_C = 1.25\text{mA}$)

4 个脚 DIP 和 SM 光耦



交流输入型

Part Number	Features	Current Transfer Ratio $I_p = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DW)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
SFH628A-2	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	63-200 ²	7.5(pk) 5.3(rms)	50mA	1.4	55	200 ($V_{CE}=10\text{V}$)	0.4($I_F=\pm 1\text{mA}$) ($I_C=0.5\text{mA}$)
SFH628A-3		100-320 ²						0.4($I_F=\pm 1\text{mA}$) ($I_C=0.8\text{mA}$)
SFH628A-4		160-500 ²						0.4($I_F=\pm 1\text{mA}$) ($I_C=1.25\text{mA}$)
TIL194		20				35	100 ($V_{CE}=24\text{V}$)	0.4($I_F=\pm 5\text{mA}$) ($I_C=1\text{mA}$)
TIL194A		50						
TIL194B		100						
TLP620-1		40-125 ¹						0.4($I_F=\pm 8\text{mA}$) ($I_C=2.4\text{mA}$)
TLP626-1		100 ³ 50 ³				55		0.4($I_F=\pm 1\text{mA}$) ($I_C=0.5\text{mA}$)

Note 1 Test condition: $I_F = \pm 5\text{mA}$ Note 2 Test condition: $I_F = \pm 1\text{mA}$, $V_{CE} = 0.5\text{V}$ Note 3 Test condition: $I_F = \pm 0.5\text{mA}$, $V_{CE} = 1.5\text{V}$ Note 4 Test condition: $I_F = \pm 1\text{mA}$ Note 5 Test condition: $I_F = \pm 0.25 / \pm 0.5 / \pm 1\text{mA}$, $V_{CE} = 5\text{V}$

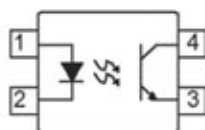
达林顿输出型

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 1\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 20\text{mA}$ Max (V)	V_{BE} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DW)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP627-1	Single channel Optocoupler with a Photo-Darlington Transistor	1000	7.5(pk) 5.3(rms)	50mA	1.4	6	300 ($I_C = 1\text{mA}$)	200 ($V_{CE} = 200\text{V}$)	1.2($I_F = 10\text{mA}$) ($I_C = 100\text{mA}$)
ISP815		600-7500 ($V_{CE} = 2\text{V}$)					35 ($I_C = 0.1\text{mA}$)	100	1($I_F = 20\text{mA}$) ($I_C = 5\text{mA}$)
ISP815-1		/800 ¹					70		1($I_F = 1\text{mA}$) ($I_C = 8\text{mA}$)
ISP815-2		/400/800 ¹							1($I_F = 0.5\text{mA}$) ($I_C = 2\text{mA}$)
ISP815-3		200/400/800 ¹							1($I_F = 0.25\text{mA}$) ($I_C = 0.5\text{mA}$)
PS2502-1		200-2000					80		1($I_F = 1\text{mA}$) ($I_C = 2\text{mA}$)
TIL197		500-7500 ($I_F = 2\text{mA}$)					35		1($I_F = 2\text{mA}$) ($I_C = 10\text{mA}$)
TIL197A		1000-7500 ($I_F = 2\text{mA}$)							
TIL197B		1500-7500 ($I_F = 2\text{mA}$)							
TLP627-1		1000					300 ($I_C = 1\text{mA}$)		200 ($V_{CE} = 200\text{V}$)

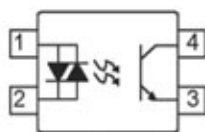
Note 1 Test condition: $I_F = \pm 0.25 / \pm 0.5 / \pm 1\text{mA}$, $V_{CE} = 1\text{V}$

Note 2 Test condition: Device has a reverse biased diode connected between pin 3 and 4 giving high breakdown stability

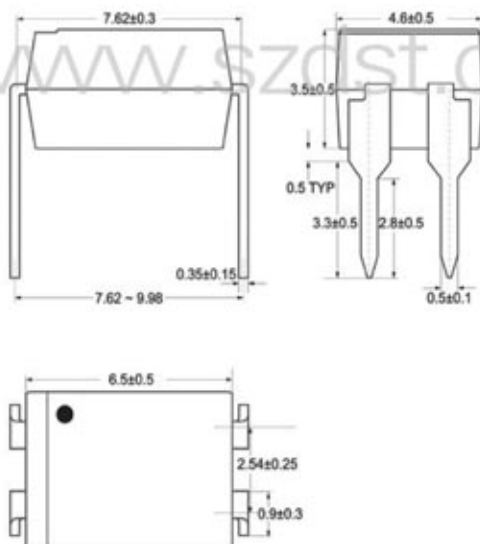
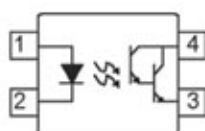
晶体管输入型



交流输入型



达林顿输出型



6 个脚 DIP 和 SM 光耦



晶体管输出 - 基极连接

Part Number	Features	Current Transfer Ratio $I_f = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_f $I_f = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)	
4N25	Single channel Optocoupler with a Phototransistor Output	20	7.5(pk) 5.3(rms)	50mA	1.4	30	50	0.5($I_f = 50\text{mA}$) ($I_C = 2\text{mA}$)	
4N26		10							
4N27									
4N28		100				30	50	0.3($I_f = 10\text{mA}$) ($I_C = 0.5\text{mA}$)	
4N35									
4N36		20 ($V_{CE} = 1\text{V}$)							80
4N37		30				50	0.4($I_f = 10\text{mA}$) ($I_C = 4\text{mA}$)		
4N38								40-160 ($V_{CE} = 0.4\text{V}$)	
4N38A		40-160 ($V_{CE} = 0.4\text{V}$)				30	50	0.4($I_f = 10\text{mA}$) ($I_C = 4\text{mA}$)	
CNX72A		40 ($V_{CE} = 0.4\text{V}$)							
CNX83AG		40-80 ($V_{CE} = 5\text{V}$)				70	50	0.4($I_f = 10\text{mA}$) ($I_C = 2.5\text{mA}$)	
CNY17-1		63-125 ($V_{CE} = 5\text{V}$)							
CNY17-2		100-200 ($V_{CE} = 5\text{V}$)							
CNY17-3		160-320 ($V_{CE} = 5\text{V}$)				90	150 ($V_{CE} = 20\text{V}$)	0.3($I_f = 10\text{mA}$) ($I_C = 1\text{mA}$)	
CNY17-4		200-400 ($V_{CE} = 5\text{V}$)							
CNY17-5		100-200 ($V_{CE} = 5\text{V}$)							
CNY75A		160-320 ($V_{CE} = 5\text{V}$)				32	200 ($V_{CE} = 20\text{V}$)	0.4($I_f = 16\text{mA}$) ($I_C = 2\text{mA}$)	
CNY75B		200-400 ($V_{CE} = 5\text{V}$)							
CNY75C		50 ($V_{CE} = 5\text{V}$)				30	50	0.4($I_f = 10\text{mA}$) ($I_C = 0.5\text{mA}$)	
CQY80		50							
H11A1		20							
H11A2		20				70	50	0.4($I_f = 20\text{mA}$) ($I_C = 2\text{mA}$)	
H11A3		10							
H11A4		30							
H11A5		100-300				50	50	0.4($I_f = 16\text{mA}$) ($I_C = 2\text{mA}$)	
H11AV1		50							
H11AV2		20							
H11AV3		20-300				70	50	0.4($I_f = 10\text{mA}$) ($I_C = 2\text{mA}$)	
IL1		100-500							
IL2		50-400							
IL5		12.5 ($I_f = 16\text{mA}$)				70	50	0.4($I_f = 1\text{mA}$) ($I_C = 0.5\text{mA}$)	
IL74		20							
IS1		100							
IS2		75/10 ($I_f = 10\text{mA}/1\text{mA}$)				30	50	0.4($I_f = 16\text{mA}$) ($I_C = 2\text{mA}$)	
IS201		125-250/30 ($I_f = 10\text{mA}/1\text{mA}$)							
IS202		225-450/30 ($I_f = 10\text{mA}/1\text{mA}$)							
IS203		200-400 ($I_f = 10\text{mA}/1\text{mA}$)				70	100	0.4($I_f = 1\text{mA}$) ($I_C = 0.5\text{mA}$)	
IS204		/50'							
IS204-1		50''							
IS204-2		70''/100'				50	50	0.4($I_f = 16\text{mA}$) ($I_C = 2\text{mA}$)	
IS204-3		50-400							
IS5		12.5 ($I_f = 16\text{mA}$)							
IS74		20				30	50	0.4($I_f = 10\text{mA}$) ($I_C = 2.5\text{mA}$)	
MCT2		50							
MCT2E		50 ($I_f = 3.2-32\text{mA}$) ($V_{CE} = 0.4\text{V}$)							
MCT210		20 ($V_{CE} = 5\text{V}$)							
MCT2200		100 ($V_{CE} = 5\text{V}$)							
MCT2201									

Note 1 Test Condition: $I_f = 1\text{mA}$, $V_{ce} = 0.4\text{V}$ Note 2 Test Condition: $I_f = 0.5\text{mA}$, $V_{ce} = 0.4\text{V}$

6 个脚 DIP 和 SM 光耦



晶体管输出 - 基极连接

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F=10\text{mA}$ Max (V)	BV_{CEO} $I_C=1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE}=10\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)			
MCT2202	Single channel Optocoupler with a Phototransistor Output	63-125 ($V_{CE}=5\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	30		0.4($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)			
MCT270		50						0.4($I_F=16\text{mA}$) ($I_C=2\text{mA}$)			
MCT271		45-90									
MCT272		75-150									
SFH600-0		40-80 ($V_{CE}=5\text{V}$)				70					
SFH600-1		63-125 ($V_{CE}=5\text{V}$)									
SFH600-2		100-200 ($V_{CE}=5\text{V}$)									
SFH600-3		160-320 ($V_{CE}=5\text{V}$)									
SFH600-4		200-400 ($V_{CE}=5\text{V}$)									
SFH601-1		40-80 ($V_{CE}=5\text{V}$)				100	50	0.4($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)			
SFH601-2		63-125 ($V_{CE}=5\text{V}$)									
SFH601-3		100-200 ($V_{CE}=5\text{V}$)									
SFH601-4		160-320 ($V_{CE}=5\text{V}$)									
SFH609-1		40-80 ($V_{CE}=5\text{V}$)				90					
SFH609-2		63-125 ($V_{CE}=5\text{V}$)									
SFH609-3		100-200 ($V_{CE}=5\text{V}$)									
SFH609-4		160-320 ($V_{CE}=5\text{V}$)									
TIL111		20 ($I_F=16\text{mA}$) ($V_{CE}=0.4\text{V}$)				30		0.4($I_F=16\text{mA}$) ($I_C=2\text{mA}$)			
TIL114								0.4($I_F=15\text{mA}$) ($I_C=2.2\text{mA}$)			
TIL116											
TIL117	50								0.4($I_F=10\text{mA}$) ($I_C=0.5\text{mA}$)		

晶体管输出 - 非基极

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
CNX62A	Single channel Optocoupler with a Phototransistor Output with base lead not connected for improved noise immunity	40 ($V_{CE}=0.4\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	50		0.4($I_F=10\text{mA}$) ($I_C=4\text{mA}$)
CNX82A								
CNY17F-1		40-80 ($V_{CE}=5\text{V}$)						
CNY17F-2		63-125 ($V_{CE}=5\text{V}$)						
CNY17F-3		100-200 ($V_{CE}=5\text{V}$)				70		0.4($I_F=10\text{mA}$) ($I_C=2.5\text{mA}$)
CNY17F-4		160-320 ($V_{CE}=5\text{V}$)						
CNY17F-5		200-400 ($V_{CE}=5\text{V}$)						
IS205		100				50	100	0.4($I_F=10\text{mA}$) ($I_C=0.5\text{mA}$)
IS205-1		/50 ¹						
IS205-2		50/ ²				70		0.4($I_F=1\text{mA}$) ($I_C=0.5\text{mA}$)
IS205-3		70 ³ /100 ¹						
IS206		50				50		0.4($I_F=10\text{mA}$) ($I_C=0.5\text{mA}$)
MOC8101		50-80						
MOC8102		73-117						0.4($I_F=5\text{mA}$) ($I_C=0.5\text{mA}$)

Note 1 Test Condition: $I_F=1\text{mA}$, $V_{CE}=0.4\text{V}$ Note 2 Test Condition: $I_F=0.5\text{mA}$, $V_{CE}=0.4\text{V}$

6 个脚 DIP 和 SM 光耦



晶体管输出 - 非基极

Part Number	Features	Current Transfer Ratio $I_f = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_f $I_f = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_f = 10\text{mA}$ $I_C = 0.5\text{mA}$ Max (V)
MOC8103	Single channel Optocoupler with a Phototransistor Output with base lead not connected for improved noise immunity	103-173	7.5(pk) 5.3(rms)	50mA	1.4	50	100	0.4($I_f = 5\text{mA}$) ($I_C = 0.5\text{mA}$)
MOC8104		160-256						
MOC8105		65-133						
MOC8106		50-150						
MOC8107		100-300						
MOC8108		250-600						0.4($I_f = 5\text{mA}$) ($I_C = 1\text{mA}$)
MOC8111		20						
MOC8112		50						
MOC8113		100						

交流输入型

Part Number	Features	Current Transfer Ratio $I_f = \pm 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_f $I_f = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_f = \pm 10\text{mA}$ $I_C = 0.5\text{mA}$ Max (V)
CNY35	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	10	7.5(pk) 5.3(rms)	$\pm 50\text{mA}$	1.4	30	50	0.4
H11AA1		20						
H11AA2		10						
H11AA3		50						
H11AA4		100						
IS604		50						
IS733		20-300 ($I_f = 1\text{mA}$) ($V_{CE} = 5\text{V}$)				35	100 ($V_{CE} = 20\text{V}$)	0.2($I_f = \pm 20\text{mA}$) ($I_C = 1\text{mA}$)

晶体管输出 - 基极连接

Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F=50\text{mA}$ Max (V)	BV_{CEO} $I_C=1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE}=10\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F=8\text{mA}$ $I_C=2\text{mA}$ Max (V)				
4N29	Single channel Optocoupler with a Photo-Darlington Transistor	100	7.5(pk) 5.3(rms)	60mA	1.5	30	100	1				
4N30								1.2				
4N31								1				
4N32		50										
4N33												
H11B1		500 ($I_F=1\text{mA}$) ($V_{CE}=5\text{V}$)						1.0($I_F=1\text{mA}$) ($I_C=1\text{mA}$)				
H11B2		200 ($I_F=1\text{mA}$) ($V_{CE}=5\text{V}$)										
H11B3		100 ($I_F=1\text{mA}$) ($V_{CE}=5\text{V}$)						1.0($I_F=50\text{mA}$) ($I_C=50\text{mA}$)				
MCA2230		100 ($V_{CE}=5\text{V}$)						1.0($I_F=1\text{mA}$) ($I_C=2\text{mA}$)				
MCA2231		500 ($V_{CE}=5\text{V}$)				55						
MCA2255												
MCA255								30				
MCA230												
MCA231		500 ($V_{CE}=5\text{V}$)				55		1.0($I_F=1\text{mA}$) ($I_C=1\text{mA}$)				
MOC8080								1.0($I_F=50\text{mA}$) ($I_C=50\text{mA}$)				
TIL113	500 ($V_{CE}=1\text{V}$)	30										

6 个脚 DIP 和 SM 光耦



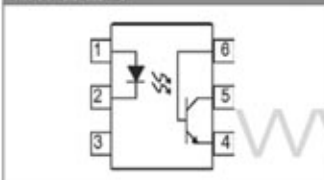
达林顿感输出 - 非基极

Part Number	Features	Current Transfer Ratio $I_f = 1\text{mA}$ $V_{CE} = 2\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_f $I_f = 10\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DW)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
ISPD60	Single channel Optocoupler with a Photo-Darlington Transistor with base lead not connected for improved noise immunity	100	7.5(pk) 5.3(rms)	50mA	1.4	35 ($I_C = 0.1\text{mA}$)	100	1.0 ($I_f = 10\text{mA}$) ($I_C = 10\text{mA}$)
ISPD61		500						
ISPD62		1000						
ISPD63		100						
ISPD64		500						
ISPD65		1000						
MOC8020		500 ($I_f = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
MOC8021		1000 ($I_f = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
MOC8030		300 ($I_f = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
MOC8050		500 ($I_f = 10\text{mA}$) ($V_{CE} = 5\text{V}$)						
TIL119		300 ($I_f = 10\text{mA}$) ($V_{CE} = 1\text{V}$)						1.0 ($I_f = 10\text{mA}$) ($I_C = 30\text{mA}$)

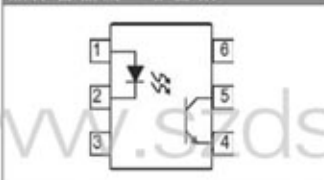
达林顿感输出 - 基极连接高电压

Part Number	Features	Current Transfer Ratio $I_f = 10\text{mA}$ $V_{ce} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_f $I_f = 10\text{mA}$ Max (V)	BV_{CEO} $I_c = 1\text{mA}$ Min (V)	$I_{CEO(DW)}$ Max (nA)	$V_{CE(SAT)}$ Max (V)					
H11G1	Single channel Optocoupler with a Photo-Darlington Transistor with a high operating voltage	1000 ($I_f = 1\text{mA}$) ($V_{ce} = 5\text{V}$)	7.5(pk) 5.3(rms)	50	1.4	100	100 ($V_{ce} = 80\text{V}$)	1.0 ($I_f = 1\text{mA}$) ($I_c = 1\text{mA}$)					
H11G2						80	100 ($V_{ce} = 60\text{V}$)						
H11G3		200 ($I_f = 1\text{mA}$) ($V_{ce} = 5\text{V}$)				55	100 ($V_{ce} = 30\text{V}$)	1.2 ($I_f = 20\text{mA}$) ($I_c = 50\text{mA}$)					
IS4N45		250 ($I_f = 1\text{mA}$) ($V_{ce} = 1\text{V}$)					100 ($V_{ce} = 55\text{V}$)	1.0 ($I_f = 1\text{mA}$) ($I_{ce} = 2.5\text{mA}$)					
IS4N46		500 ($I_f = 1\text{mA}$) ($V_{ce} = 1\text{V}$)						1.0 ($I_f = 0.5\text{mA}$) ($I_{ce} = 1.75\text{mA}$)					
IS660		1000 ($I_f = 1\text{mA}$) ($V_{ce} = 5\text{V}$)				200	1000 ($V_{ce} = 200\text{V}$)	1.2 ($I_f = 20\text{mA}$) ($I_c = 100\text{mA}$)					
IS661						300							
IS725													

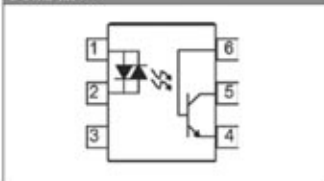
晶体管输出



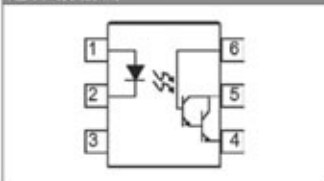
晶体管输出 - 非基极



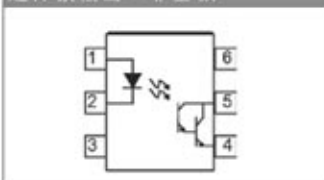
交流输入



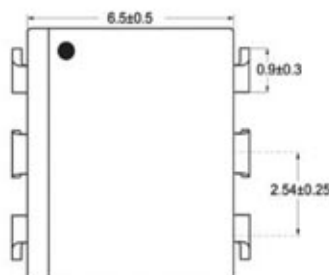
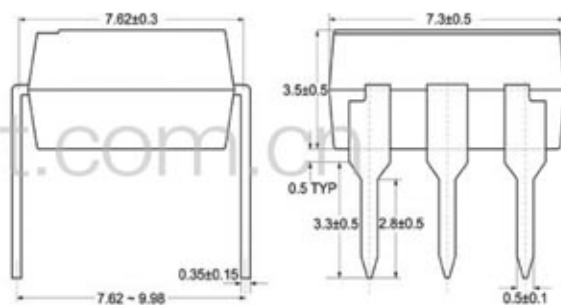
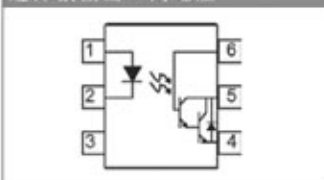
达林顿输出



达林顿输出 - 非基极



达林顿输出 - 高电压



8 个脚 DIP 和 SM 光耦



晶体管输出

Part Number	Features	Current Transfer Ratio $I_f = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 0.5\text{mA}$ Min (V)	$I_{CEO(DARK)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_f = 8\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)
ISP321-2	Two channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4
ISP521-2		50-600				55		
ISP621-2		50-600				35		
ISP827		50-600				55		
ISP624-2		100-1200 ¹				80		0.2($I_f = 20\text{mA}$) ($I_C = 1\text{mA}$)
PS2501-2		80-600				35		0.4($I_f = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
TIL192		20				80		0.3($I_f = 10\text{mA}$) ($I_C = 2\text{mA}$)
TIL192A		50				55		0.4($I_f = 5\text{mA}$) ($I_C = 1\text{mA}$)
TIL192B		100				80		0.4
TLP321-2		50-600				55		
TLP521-2		50-600				80		
TLP621-2		50-600				55		0.4($I_f = 1\text{mA}$) ($I_C = 0.5\text{mA}$)

Note 1 Test condition: $I_f = 1\text{mA}$, $V_{CE} = 0.5\text{V}$

交流输入

Part Number	Features	Current Transfer Ratio $I_f = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_f = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DARK)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP620-2	Two channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	40-125 ¹	7.5(pk) 5.3(rms)	50mA	1.4	55 ($I_C = 0.5\text{mA}$)	100 ($V_{CE} = 24\text{V}$)	0.4($I_f = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)
ISP626-2		100-1200 ² 50 ³				35	100	0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISP824		20-300 ⁴				80	100 ($V_{CE} = 40\text{V}$)	0.2($I_f = \pm 20\text{mA}$) ($I_C = 1\text{mA}$)
PS2505-2		80-600				35	100 ($V_{CE} = 24\text{V}$)	0.3($I_f = \pm 10\text{mA}$) ($I_C = 2\text{mA}$)
TIL195		20				55	100	0.4($I_f = \pm 5\text{mA}$) ($I_C = 1\text{mA}$)
TIL195A		50				80	100	0.4($I_f = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)
TIL195B		100				55	100	0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)
TLP620-2		40-125 ¹				80	100	0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)

Note 1 Test condition: $I_f = \pm 5\text{mA}$ Note 2 Test condition: $I_f = \pm 1\text{mA}$, $V_{CE} = 0.5\text{V}$ Note 3 Test condition: $I_f = \pm 0.5\text{mA}$, $V_{CE} = 1.5\text{V}$ Note 4 Test condition: $I_f = \pm 1\text{mA}$

达林顿输出

Part Number	Features	Current Transfer Ratio $I_f = 1\text{mA}$ $V_{CE} = 1\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_f = 20\text{mA}$ Max (V)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DARK)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP825	Two channel Optocoupler with a Photo-Darlington Transistor	600-7500 ($V_{CE} = 2\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	6	35 ($I_C = 0.1\text{mA}$)	100	1($I_f = 20\text{mA}$) ($I_C = 5\text{mA}$)
ISP825-1		/800 ¹					70		1($I_f = 1\text{mA}$) ($I_C = 8\text{mA}$)
ISP825-2		/400 ² /800 ¹					80		1($I_f = 0.5\text{mA}$) ($I_C = 2\text{mA}$)
ISP825-3		200 ³ /400 ² /800 ¹					35		1($I_f = 0.25\text{mA}$) ($I_C = 0.5\text{mA}$)
PS2502-2		200-2000					80		1($I_f = 1\text{mA}$) ($I_C = 2\text{mA}$)
TIL198		500-7500 ($I_f = 2\text{mA}$)					35		1($I_f = 2\text{mA}$) ($I_C = 10\text{mA}$)
TIL198A		1000-7500 ($I_f = 2\text{mA}$)					35		1($I_f = 2\text{mA}$) ($I_C = 10\text{mA}$)
TIL198B		1500-7500 ($I_f = 2\text{mA}$)					35		1($I_f = 2\text{mA}$) ($I_C = 10\text{mA}$)

Note 1 Test condition: $I_f = 1\text{mA}$, $V_{CE} = 1\text{V}$ Note 2 Test condition: $I_f = 0.5\text{mA}$, $V_{CE} = 1\text{V}$ Note 3 Test condition: $I_f = 0.25\text{mA}$, $V_{CE} = 1\text{V}$

8 个脚 DIP 和 SM 光耦



8 脚对称型 DIP 和 SM 光耦

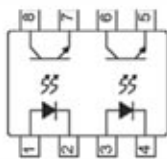
Part Number	Features	Current Transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 10\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DMR)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 16\text{mA}$ $I_C = 2\text{mA}$ Max (V)
ILD1	Two channel Optocoupler with a Phototransistor Output	20-300	7.5(pk) 5.3(rms)	50	6	50	50	0.4
ILD2		100-500						
ILD5		50-400						
ILD74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)						
IS829		50 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)				100 ($V_{CE} = 24\text{V}$)	0.2($I_F = 20\text{mA}$) ($I_C = 1\text{mA}$)	
ISD1		20				50	0.3($I_F = 10\text{mA}$) ($I_C = 2\text{mA}$)	
ISD2		100-500				50	0.4($I_F = 5\text{mA}$) ($I_C = 1\text{mA}$)	
ISD5		50						
ISD74		12.5 ($I_F = 16\text{mA}$ $V_{CE} = 5\text{V}$)						
MCT6		20				3	30	100
MCT61	50 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)							
MCT62	100 ($I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$)							
MCT66	6							

高 CTR (电流传输比), 高灵敏度 / 低输出电压

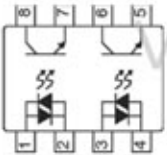
ISD201	Two channel Optocoupler with a Phototransistor Output	75 (10) ¹	7.5(pk) 5.3(rms)	50	6	70	50	0.4($I_F = 10\text{mA}$) ($I_C = 2\text{mA}$)
ISD202		125-250 (30) ¹						
ISD203		225-450 (50) ¹						
ISD204		200-400 (100) ¹						
ISD204-1		/50 ²						0.4($I_F = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISD204-2		50 ³						0.4($I_F = 0.5\text{mA}$) ($I_C = 0.25\text{mA}$)
ISD204-3		70 ³ /100 ³						0.4($I_F = 0.5\text{mA}$) ($I_C = 0.35\text{mA}$)

Note 1 Test condition : $I_F = 1\text{mA}$ Note 2 Test condition : $I_F = 1\text{mA}$, $V_{CE} = 0.4\text{V}$ Note 3 Test condition : $I_F = 0.5\text{mA}$, $V_{CE} = 0.4\text{V}$

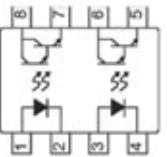
晶体管输出



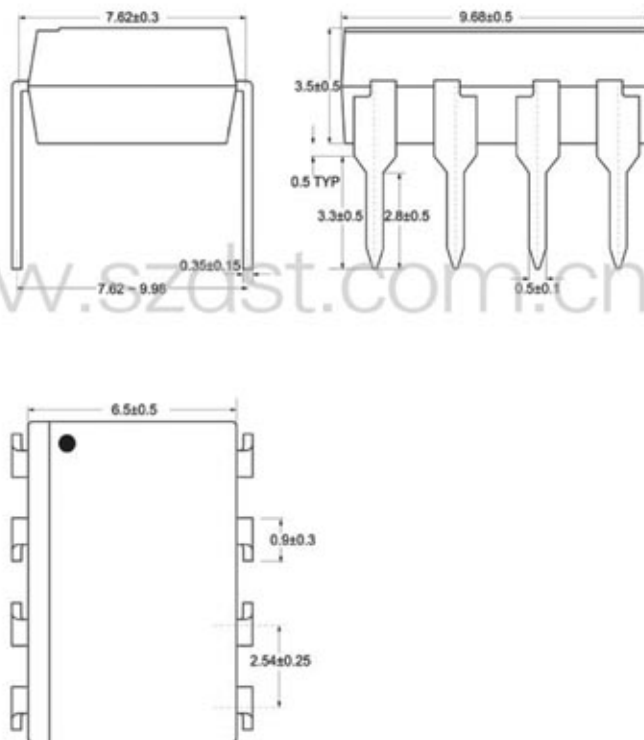
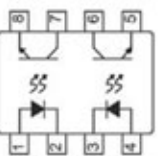
交流输入



达林顿输出



对称型



16 个脚 DIP 和 SM 光耦



晶体管输出

Part Number	Features	Current Transfer Ratio $I_f = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 0.5\text{mA}$ Min (V)	$I_{CEO(DARK)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_f = 8\text{mA}$ $I_C = 2.4\text{mA}$ Max (V)
ISP321-4	Four channel Optocoupler with a Phototransistor Output	50-600	7.5(pk) 5.3(rms)	50	6	80	100	0.4
ISP521-4		50-600				55		
ISP621-4		50-600				35		
ISP847		50-600				55		0.2($I_f = 20\text{mA}$) ($I_C = 1\text{mA}$)
ISP624-4		100-1200 ¹				80		0.4($I_f = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
PS2501-4		80-600				35		0.3($I_f = 10\text{mA}$) ($I_C = 2\text{mA}$)
TIL193		20				80		0.4($I_f = 5\text{mA}$) ($I_C = 1\text{mA}$)
TIL193A		50				55		
TIL193B		100				80		
TLP321-4		50-600				55		0.4
TLP521-4		50-600				80		
TLP621-4		50-600				55		
TLP624-4		50-600				80		0.4($I_f = 1\text{mA}$) ($I_C = 0.5\text{mA}$)

Note 1 Test Condition: $I_f = 1\text{mA}$, $V_{CE} = 0.5\text{V}$

交流输入

Part Number	Features	Current Transfer Ratio $I_f = \pm 10\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_f = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DARK)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP620-4	Four channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	40-125 ¹	7.5(pk) 5.3(rms)	50mA	1.4	55 ($I_C = 0.5\text{mA}$)	100 ($V_{CE} = 24\text{V}$)	0.4($I_f = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)
ISP626-4		100-1200 ² 50 ³				35		0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISP844		20-300 ⁴				80	100 ($V_{CE} = 40\text{V}$)	0.2($I_f = \pm 20\text{mA}$) ($I_C = 1\text{mA}$)
PS2505-4		80-600				35		0.3($I_f = \pm 10\text{mA}$) ($I_C = 2\text{mA}$)
TIL196		20				55		0.4($I_f = \pm 5\text{mA}$) ($I_C = 1\text{mA}$)
TIL196A		50				80	100 ($V_{CE} = 24\text{V}$)	0.4($I_f = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)
TIL196B		100				35		0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)
TLP620-4		40-125 ¹				55		0.4($I_f = \pm 8\text{mA}$) ($I_C = 2.4\text{mA}$)
TLP626-4		100-1200 ² 50 ³				35		0.4($I_f = \pm 1\text{mA}$) ($I_C = 0.5\text{mA}$)

Note 1 Test condition: $I_f = \pm 5\text{mA}$ Note 2 Test condition: $I_f = \pm 1\text{mA}$, $V_{CE} = 0.5\text{V}$ Note 3 Test condition: $I_f = \pm 0.5\text{mA}$, $V_{CE} = 1.5\text{V}$ Note 4 Test condition: $I_f = \pm 1\text{mA}$

达林顿输出

Part Number	Features	Current Transfer Ratio $I_f = 1\text{mA}$ $V_{CE} = 1\text{V}$ Min (%)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_f = 20\text{mA}$ Max (V)	V_{BR} $I_R = 10\mu\text{A}$ Min (V)	BV_{CEO} $I_C = 1\text{mA}$ Min (V)	$I_{CEO(DARK)}$ $V_{CE} = 10\text{V}$ Max (nA)	$V_{CE(SAT)}$ Max (V)
ISP845	Four channel Optocoupler with a Photo-Darlington Transistor	600-7500 ($V_{CE} = 2\text{V}$)	7.5(pk) 5.3(rms)	50mA	1.4	6	35 ($I_C = 0.1\text{mA}$)	100	1($I_f = 20\text{mA}$) ($I_C = 5\text{mA}$)
ISP845-1		/800 ¹					70		1($I_f = 1\text{mA}$) ($I_C = 8\text{mA}$)
ISP845-2		/400 ² /800 ¹					80		1($I_f = 0.5\text{mA}$) ($I_C = 2\text{mA}$)
ISP845-3		200 ³ /400 ² /800 ¹					35		1($I_f = 0.25\text{mA}$) ($I_C = 0.5\text{mA}$)
PS2502-4		200-2000					80		1($I_f = 1\text{mA}$) ($I_C = 2\text{mA}$)
TIL199		500-7500 ($I_f = 2\text{mA}$)					35		1($I_f = 2\text{mA}$) ($I_C = 10\text{mA}$)
TIL199A		1000-7500 ($I_f = 2\text{mA}$)					35		
TIL199B		1500-7500 ($I_f = 2\text{mA}$)					35		

Note 1 Test condition: $I_f = 1\text{mA}$, $V_{CE} = 1\text{V}$ Note 2 Test condition: $I_f = 0.5\text{mA}$, $V_{CE} = 1\text{V}$ Note 3 Test condition: $I_f = 0.25\text{mA}$, $V_{CE} = 1\text{V}$

16 个脚 DIP 和 SM 光耦



16 脚晶体管对称型 DIP 和 SM

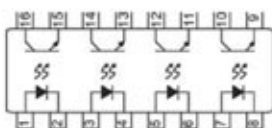
Part Number	Features	Current Transfer Ratio $I_p = 10\text{mA}$ $V_{CE} = 10\text{V}$	Min (KV) Isolation Voltage	Forward Current	V_{BR}	BV_{CEO} $I_C = 1\text{mA}$	$I_{CEO(Dark)}$ $V_{CE} = 10\text{V}$	$V_{CE(SAT)}$ $I_p = 16\text{mA}$ $I_C = 2\text{mA}$
		Min (%)	Min (KV)	Max (mA)	Min (V)	Min (V)	Max (nA)	Max (V)
ILQ1	Four channel Optocoupler with a Phototransistor Output	20-300	7.5(pk) 5.3(rms)	50	6	50	50	0.4
ILQ2		100-500				70		
ILQ5		50-400						
ILQ74		12.5($I_p = 16\text{mA}$ $V_{CE} = 5\text{V}$)				50		
IS849		50($I_p = 5\text{mA}$ $V_{CE} = 5\text{V}$)				35	100 ($V_{CE} = 24\text{V}$)	0.2($I_p = 20\text{mA}$) ($I_C = 1\text{mA}$)
ISQ1		20				50	50	0.3($I_p = 10\text{mA}$) ($I_C = 2\text{mA}$)
ISQ2		100-500				70		0.4($I_p = 5\text{mA}$) ($I_C = 1\text{mA}$)
ISQ5		50						0.4
ISQ74		12.5($I_p = 16\text{mA}$ $V_{CE} = 5\text{V}$)				50		

高电流传输比、高灵敏度 / 低输入电流

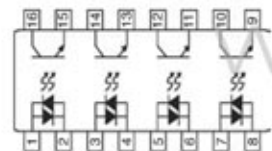
ISQ201	Four channel Optocoupler with a Phototransistor Output	75 (10) ¹	7.5(pk) 5.3(rms)	50	6	70	50	0.4($I_p = 10\text{mA}$) ($I_C = 2\text{mA}$)
ISQ202		125-250 (30) ¹						
ISQ203		225-450 (50) ¹						
ISQ204		200-400 (100) ¹						
ISQ204-1		150 ²						0.4($I_p = 1\text{mA}$) ($I_C = 0.5\text{mA}$)
ISQ204-2		50 ³						0.4($I_p = 0.5\text{mA}$) ($I_C = 0.25\text{mA}$)
ISQ204-3		70 ³ /100 ²						0.4($I_p = 0.5\text{mA}$) ($I_C = 0.35\text{mA}$)

Note 1 Test Condition: $I_p = 1\text{mA}$ Note 2 Test Condition: $I_p = 1\text{mA}$, $V_{CE} = 0.4\text{V}$ Note 3 Test Condition: $I_p = 0.5\text{mA}$, $V_{CE} = 0.4\text{V}$

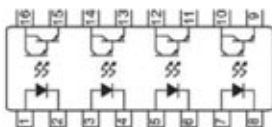
晶体管输出



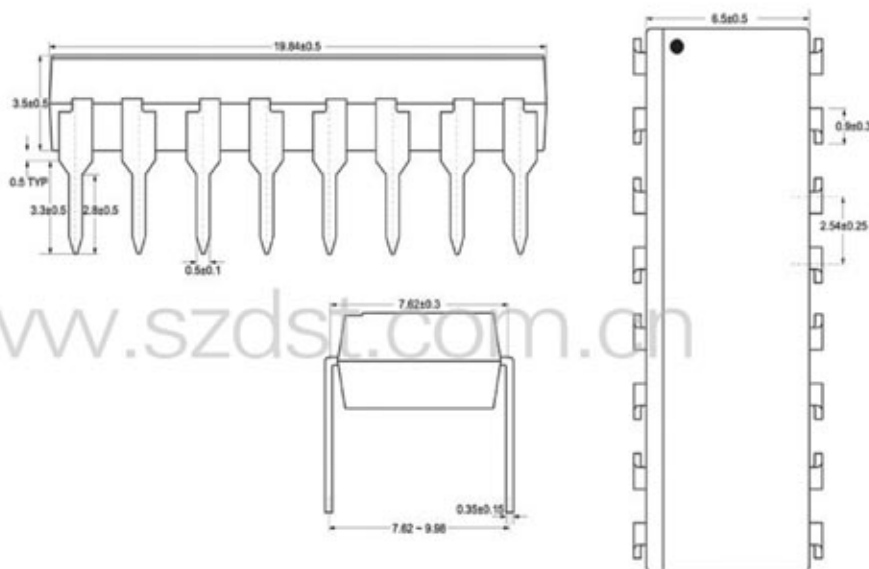
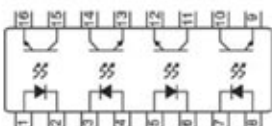
交流输入



达林顿输出



对称型



6 个脚 DIP 和 SM 可控硅光耦



随机相位双向可控硅

Part Number	Features	Input Trigger Current $V_o = 3V$ Max (mA)	Isolation Voltage Min (KV)	Continuous Forward Current Input Diode Max (mA)	V_{BR} $I_R = 10\mu A$ Min (V)	I_{DRM} Peak Off-State Current $V_{DRM} = \text{Rated}$ Max (nA)	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$ Min (V)
H11J1	Infrared Emitting Diode And Light Activated Silicon Bilateral Switch	10	7.5(pk) 5.3(rms)	50	6	100	250
H11J2		15					
H11J3		10					
H11J4		15					
H11J5		25					
IS3009		30					400
IS3010		15					
IS3011		10					
IS3012		5					
IS3020		30					
IS3021		15					600
IS3022		10					
IS3023		5					
IS3051		15					
IS3052		10					
IS6003		3					450
IS6005		5					
IS6010		10					
IS6015		15					
IS6030		30					
IS607		10					250
IS608		7					
MOC3009		30					
MOC3010		15					
MOC3011		10					400
MOC3012		5					
MOC3020		30					
MOC3021		15					
MOC3022		10					
MOC3023		5					600
MOC3051		15					
MOC3052		10					

过零点可控硅型

Part Number	Features	Input Trigger Current $V_o = 3V$ Max (mA)	Isolation Voltage Min (KV)	Continuous Forward Current Input Diode Max (mA)	V_{BR} $I_R = 10\mu A$ Min (V)	I_{DRM} Peak Off-State Current $V_{DRM} = \text{Rated}$ Max (nA)	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$ Min (V)
IS3030	Infrared Emitting Diode And Light Activated Zero Crossing Bilateral Switch	30	7.5(pk) 5.3(rms)	50	6	300	250
IS3031		15					
IS3032		10					
IS3033		5					
IS3040		30					400
IS3041		15					
IS3042		10					
IS3043		5					
IS3060		30					600
IS3061		15					

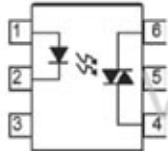
6 个脚 DIP 和 SM 可控硅光耦



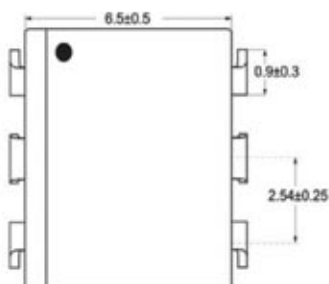
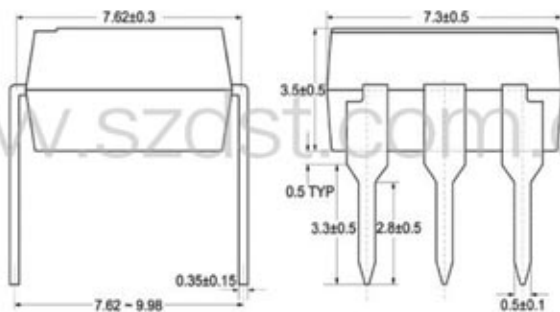
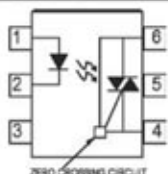
过零点可控硅型

Part Number	Features	Input Trigger Current $V_D = 3V$	Isolation Voltage	Continuous Forward Current Current Input Diode	V_{BR} $I_R = 10\mu A$	I_{ORM} Peak Off-State Current $V_{ORM} = \text{Rated}$	V_{DRM} Peak Blocking Voltage $I_{DRM} = 0.1mA$
		Max (mA)					Min (V)
IS3062	Infrared Emitting Diode And Light Activated Zero Crossing Bilateral Switch	10	7.5(pk) 5.3(rms)	50	6	300	600
IS3063		5					
IS3080		30					
IS3081		15					800
IS3082		10					
IS3083		5					
IS620		30					400
IS621		15					
IS622		10					
IS623		5					250
MOC3030		30					
MOC3031		15					
MOC3032		10					400
MOC3033		5					
MOC3040		30					
MOC3041		15					600
MOC3042		10					
MOC3043		5					
MOC3060		30					800
MOC3061		15					
MOC3062		10					
MOC3063		5					
MOC3080		30					
MOC3081		15					
MOC3082		10					
MOC3083		5					

随机相位双向可控硅



过零点可控硅型



4 脚小体积扁平光耦



晶体管输出

Part Number	Features	Current Transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V_F $I_F = 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.5\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 1\text{mA}$ Max (V)
IS121	Single channel Optocoupler with a Phototransistor Output	50-600	3.75	50	1.4	35	100	0.2
IS181								
IS2701-1								
IS357								
IS357A		80-160						
IS357B		130-260						
IS357C		200-400						
IS357D		300-600						

交流输入

Part Number	Features	Current Transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$ Min (%)	Isolation Voltage Min (KV _{RMS})	Continuous Forward Current Max (mA)	V_F $I_F = \pm 20\text{mA}$ Max (V)	BV_{CEO} $I_C = 0.1\text{mA}$ Min (V)	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$ Max (nA)	$V_{CE(SAT)}$ $I_F = \pm 20\text{mA}$ $I_C = 1\text{mA}$ Max (V)
IS126	Single channel Optocoupler with two infrared LED's wired in inverse parallel allowing operation with AC input voltage	20-400	3.75	±50	1.4	35	100	0.2
IS2705-1								
IS354								
IS354A								

达林顿输出

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 2\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	$I_{CEO(Dark)}$ $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (μA)	Max (V)
IS355	Single channel Optocoupler with a Photo-Darlington Transistor	600-7500	3.75	50	1.4	35	1	1
IS2702-1								

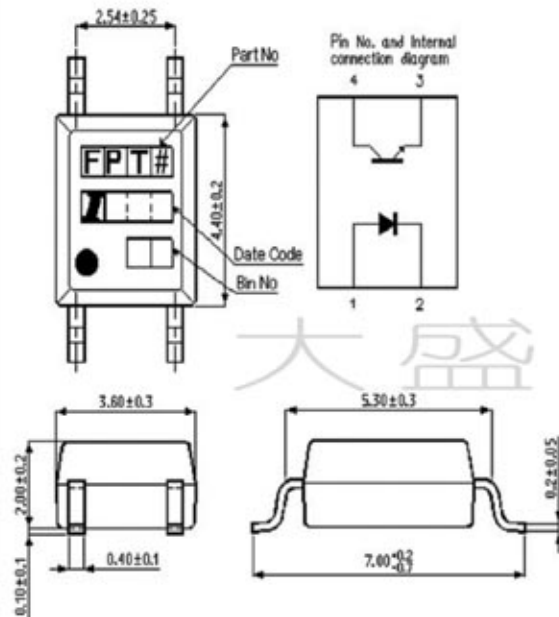
达林顿输出 - 高电压型

Part Number	Features	Current Transfer Ratio $I_F = 1\text{mA}$ $V_{CE} = 2\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 10\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	$I_{CEO(Dark)}$ $V_{CE} = 200\text{V}$	$V_{CE(SAT)}$ $I_F = 20\text{mA}$ $I_C = 100\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS2732-1	Single channel Optocoupler with a Photo-Darlington Transistor with a high operating voltage	1000	3.75	50	1.4	300	200	1.2
IS452								
IS127								

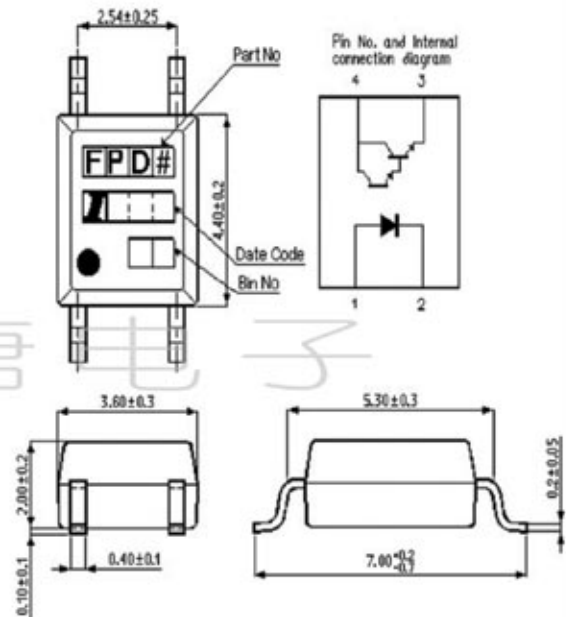
4 脚小体积扁平光耦



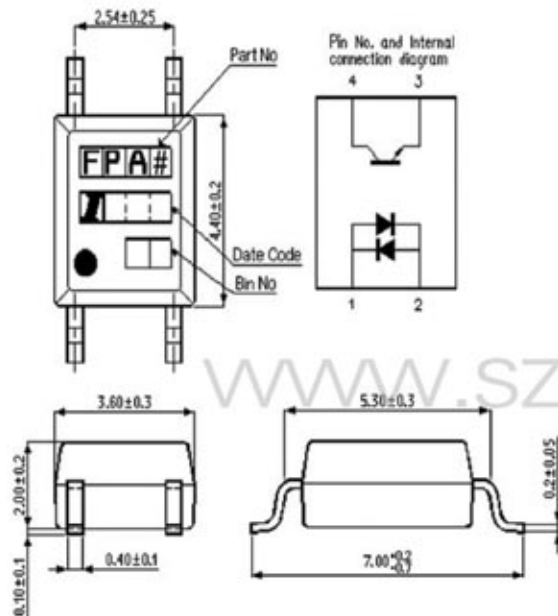
晶体管输出



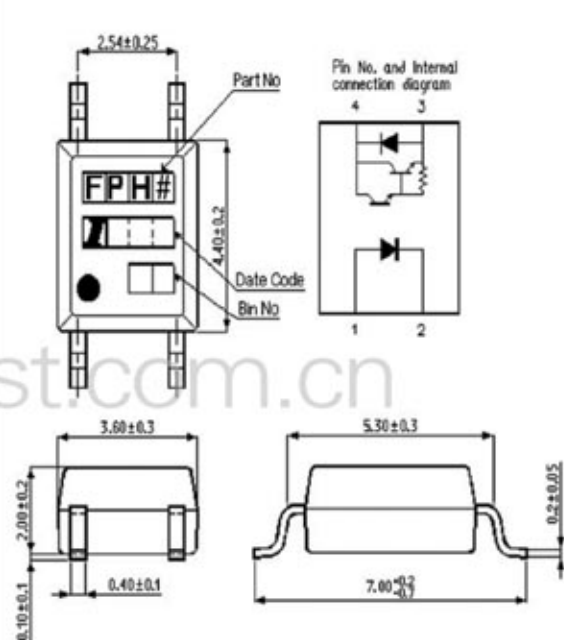
达林顿输出



交流输入



达林顿输出 - 高电压型



= Internal binning

4 脚 / 16 脚半间距光耦



4 脚晶体管型

Part Number	Features	Current transfer Ratio $I_F = 5\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 10\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS281	Single channel Optocoupler with Phototransistor Output	50-600 $I_F = 10\text{mA}$ $V_{CE} = 5\text{V}$	3.75	60	1.4	80	100	0.2
IS2801-1		50-600						

4 脚长扁平晶体管输出

Part Number	Features	Current transfer Ratio $I_F = 10\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = 50\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = 10\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
ISLT1102	Single channel Optocoupler with Phototransistor Output	63-125	5	60	1.5	80	100	0.3

16 脚晶体管输出

Part Number	Features	Current transfer Ratio 5mA 5V	trans- I _F = V _{CE} =	Isolation Voltage	Continuous Forward Current	V _F I _F = 20mA	BV _{CEO} I _C = 0.1mA	I _{CEO} V _{CE} = 50V	V _{CE(SAT)} I _F = 2.4mA I _C = 8mA
		Min (%)		Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS281-4	Four channel Optocoupler with Phototransistor Output	50-600		3.75	50	1.4	80	100	0.4
IS2801-4									

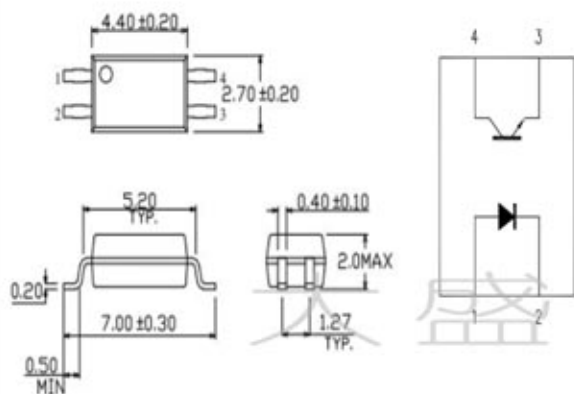
4 脚交流输入

Part Number	Features	Current transfer Ratio $I_F = \pm 1\text{mA}$ $V_{CE} = 5\text{V}$	Isolation Voltage	Continuous Forward Current	V_F $I_F = \pm 20\text{mA}$	BV_{CEO} $I_C = 0.1\text{mA}$	I_{CEO} $V_{CE} = 20\text{V}$	$V_{CE(SAT)}$ $I_F = \pm 20\text{mA}$ $I_C = 1\text{mA}$
		Min (%)	Min (KV _{RMS})	Max (mA)	Max (V)	Min (V)	Max (nA)	Max (V)
IS3H4	Single channel Optocoupler with Phototransistor Output	20-300	3.75	± 50	1.4	80	100	0.2

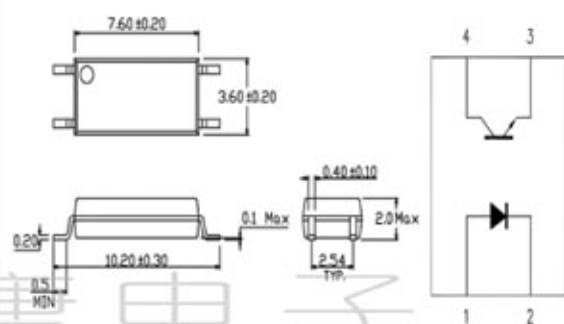
4 脚 / 16 脚半间距光耦



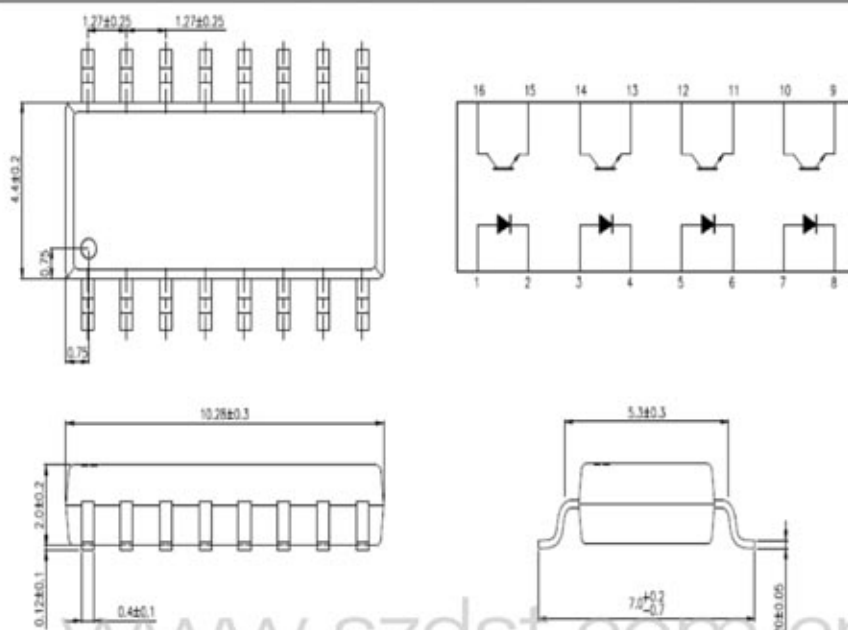
4 脚晶体管输出



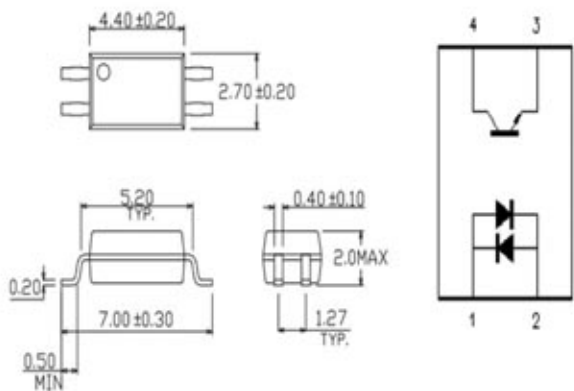
4 脚长扁平晶体管输出



16 脚晶体管输出



4 脚交流输入晶体管输出



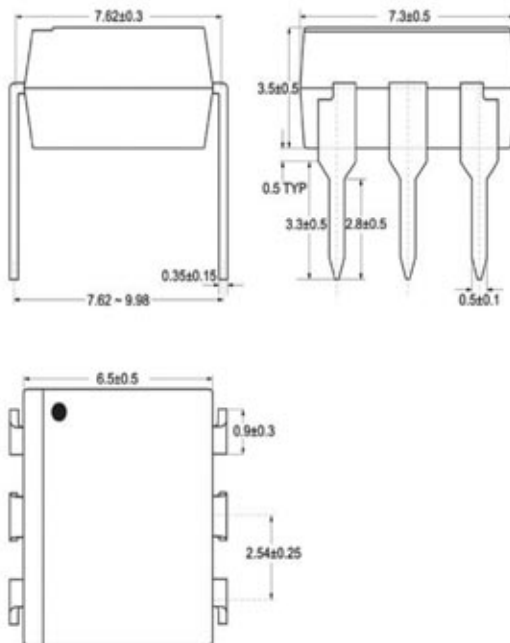
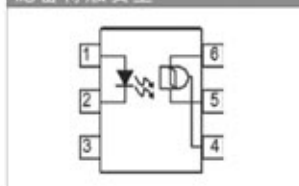
6 脚 DIP 和 SM 施密特光耦



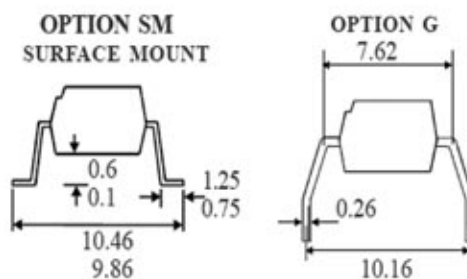
施密特触发型

Part Number	Features	Turn-On Threshold Current $R_t=270\Omega$ $V_{CE}=5V$ Max (mA)	Turn-Off Threshold Current $R_t=270\Omega$ $V_{CE}=5V$ Min (mA)	Isolation Voltage Min (KV)	Continuous Forward Current Max (mA)	V_F $I_F=50mA$ Max (V)	$V_{FOL}(LED)$ $I_F=10\mu A$ Min (V)	Output Voltage (Low) $R_t=270\Omega$ $V_{CC}=5V$ Max (V)
H11L1	Microprocessor compatible	1.6	0.3	7.5(pk) 5.3(rms)	50mA	1.5	100	0.4
H11L2		10						
H11L3		5						
H11L4		2.0						
IS609		1.6						
MOC5007		4						
MOC5008		10						
MOC5009								

施密特触发型


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引脚外形图



小体积扁平可控硅系列


ISOCOM
COMPONENTS

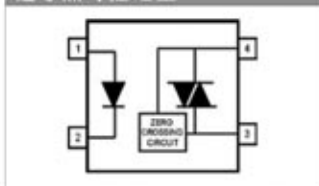
过零点系列

Part Number	Features	Input Trigger Current $V_o = 3V$	Isolation Voltage Min (vrms)	Continuous Forward Current Input Diode Max (mA)	V_{BR} $I_R = 10\mu A$ Min (V)	I_{ORM} Peak Off-State Current V_{ORM} Rated Max (mA)	V_{ORM} Peak Blocking Voltage $I_{ORM} = 0.1mA$
		Max (mA)					Min (V)
MF3030	Infrared Emitting Diode and Light activated Zero crossing Bilateral Switch in a space saving Mini Flat Package	30	3750	60	6	100	250
MF3031		15					
MF3032		10					
MF3033		5					
MF3040		30					400
MF3041		15					
MF3042		10					
MF3043		5					
MF3060		30					600
MF3061		15					
MF3062		10					
MF3063		5					
MF3080		30					800
MF3081		15					
MF3082		10					
MF3083		5					

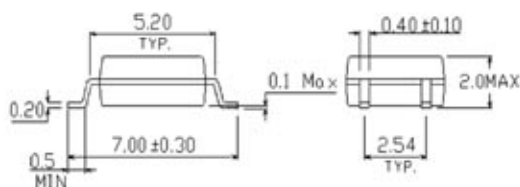
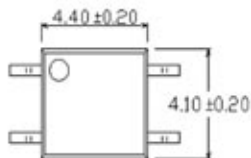
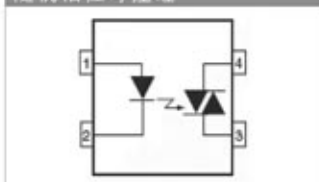
随机相位系列

Part Number	Features	Input Trigger Current $V_o = 3V$	Isolation Voltage Min (vrms)	Continuous Forward Current Input Diode Max (mA)	V_{BR} $I_R = 10\mu A$ Min (V)	I_{ORM} Peak Off-State Current V_{ORM} Rated Max (mA)	V_{ORM} Peak Blocking Voltage $I_{ORM} = 0.1mA$
		Max (mA)					Min (V)
MF3009	Infrared Emitting Diode and Light activated Zero crossing Bilateral Switch in a space saving Mini Flat Package	30	3750	60	6	100	250
MF3010		15					
MF3011		10					
MF3012		5					
MF3020		30					400
MF3021		15					
MF3022		10					
MF3023		5					
MF3051		15					600
MF3052		10					

过零点可控硅型



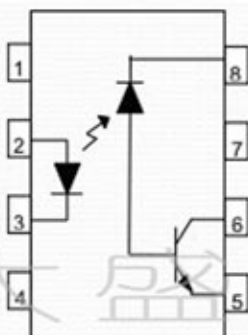
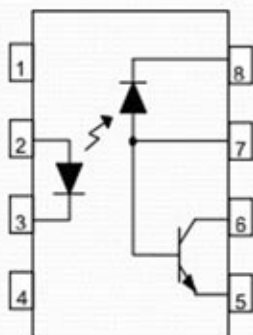
随机相位可控硅



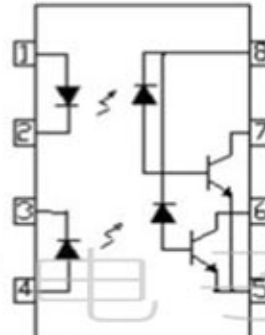
1Mbits/s 高速光耦



Single Channel



Dual Channel



Output	Pitch	V_B (Photodiode Bias)	
		Accessible	No Connection
Single Channel	Standard Pitch	6N135, 6N136	ICPL4502, ICPL4503
	Half Pitch	ICPL0500, ICPL0501	ICPL0452, ICPL0453
Dual Channel	Standard Pitch		ICPL2530, ICPL2531

Part Number	V_{CC} (V)	Current Transfer Ratio $V_{CC} = 4.5V$ $I_F = 16mA$ $V_O = 0.4V$ (%)	CM_H Min (V/ μs)	CM_L Min (V/ μs)
6N135	30	7-50	1000	1000
6N136		19-50	1000	1000
ICPL4502			15000	15000
ICPL4503				
ICPL0500	30	7-50	1000 Typical	1000 Typical
ICPL0501		19-50	1000 Typical	1000 Typical
ICPL0452				
ICPL0453			15000	15000
ICPL2530	30	7-50	1000	1000
ICPL2531		19-50	1000	1000

Note : CMRR for reference comparison due to different testing conditions.

10Mbps/s 的高速光耦



单通道

Part Number	Features	Isolation Voltage	Continuous Forward Current	V _{CC}	V _O	V _E	I _{FT}	t _{HL} , t _{LH}	PWD	CM _{HL}	CM _L
		Min (KV _{RMS})	Max (mA)	Max (V)	Max (V)	Max (V)	Max (mA)	Max (ns)	Max (ns)	Min (V/μs)	Min (V/μs)
6N137	Single Channel Optocoupler with a High Speed Strobable Integrated Photo Detector Logic Gate Output	5	50	7.0	7.0	5.5	5	75	35	1000 Ref	1000 Ref
ICPL2601										5000 V _{CM} = 50Vp-p	5000 V _{CM} = 50Vp-p
ICPL2611										10000 V _{CM} = 400Vp-p	10000 V _{CM} = 400Vp-p

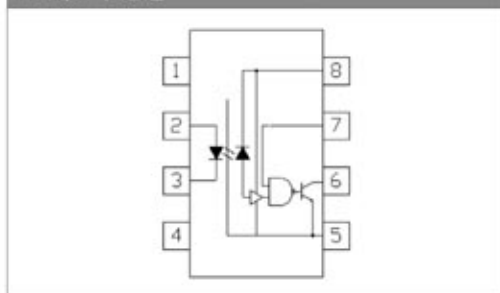
半间距单通道

Part Number	Features	Isolation Voltage	Continuous Forward Current	V _{CC}	V _O	V _E	I _{FT}	t _{HL} , t _{LH}	PWD	CM _{HL}	CM _L
		Min (KV _{RMS})	Max (mA)	Max (V)	Max (V)	Max (V)	Max (mA)	Max (ns)	Max (ns)	Min (V/μs)	Min (V/μs)
ICPL0600	Single Channel Optocoupler with a Strobable High Speed Integrated Photo Detector Logic Gate Output	3.75	20	7.0	7.0	5.5	5	75	35	1000 Ref	1000 Ref
ICPL0601										5000 V _{CM} = 50Vp-p	5000 V _{CM} = 50Vp-p
ICPL0611										10000 V _{CM} = 400Vp-p	10000 V _{CM} = 400Vp-p

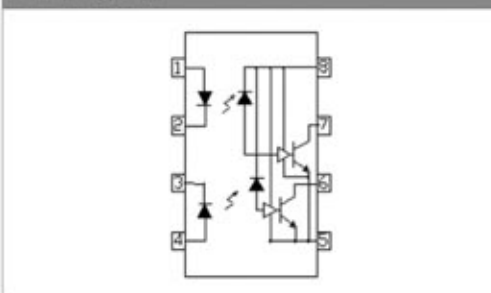
双通道

Part Number	Features	Isolation Voltage	Continuous Forward Current per Channel	V _{CC}	V _O	I _{FT}	t _{HL} , t _{LH}	PWD	CM _{HL}	CM _L
		Min (KV _{RMS})	Max (mA)	Max (V)	Max (V)	Max (mA)	Max (ns)	Max (ns)	Min (V/μs)	Min (V/μs)
ICPL2630	Dual Channel Optocoupler with a Strobable High Speed Integrated Photo Detector Logic Gate Output	5	20	7.0	7.0	5	100	35	5000	5000
ICPL2631									10000	10000

10Mbps 单通道



10Mbps 双通道



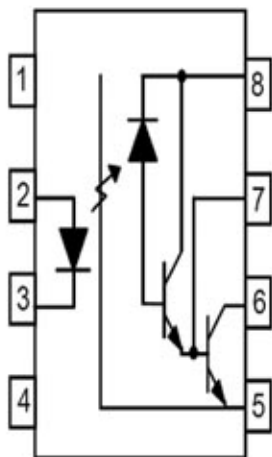
高速达林顿光耦



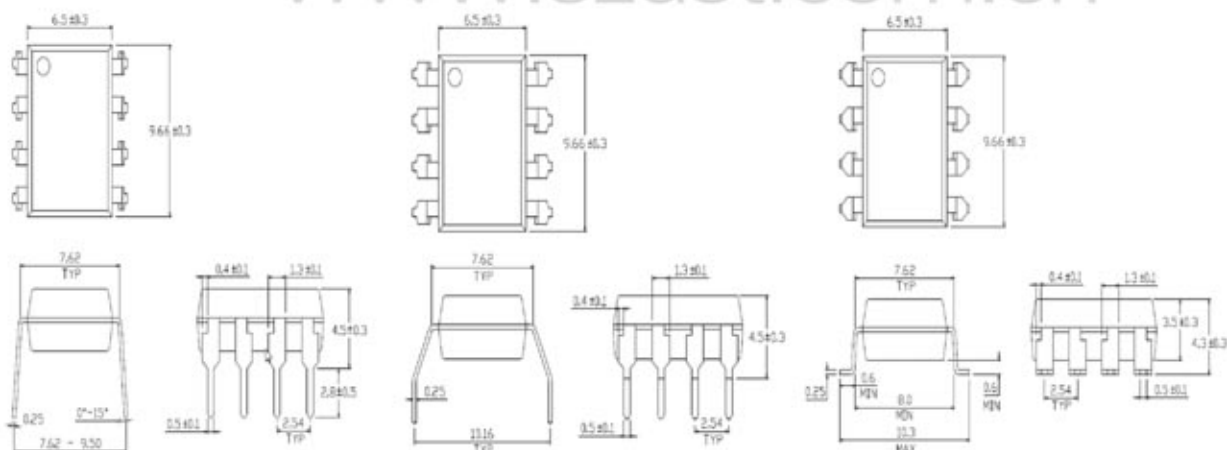
单通道

Part Number	Features	Isolation Voltage	Continuous Forward Current	V _{CC}	V _O	Current Transfer Ratio	t _{PLH}	t _{PHL}	CM _H	CM _L
		Min (KV _{RMS})	Max (mA)	Max (V)	Max (V)	V _{CC} = 4.5V I _F = 1.6mA V _O = 0.4V	V _{CC} = 5V I _F = 1.6mA R _L = 2.2kΩ	V _{CC} = 5V I _F = 1.6mA R _L = 2.2kΩ	V _{CC} = 5V I _F = 0mA V _{OH} = 2V R _L = 2.2kΩ V _{CM} = 10Vp-p	V _{CC} = 5V I _F = 1.6mA V _{OL} = 0.8V R _L = 2.2kΩ V _{CM} = 10Vp-p
6N138	Single Channel Optocoupler with a High Speed High Gain Split Darlington Transistor Output	5	20	7	7	300	10	35	1000	1000
6N139				18	18	500	1 I _F = 12mA R _L = 270Ω	7 I _F = 12mA R _L = 270Ω	1000	1000

高速达林顿光耦



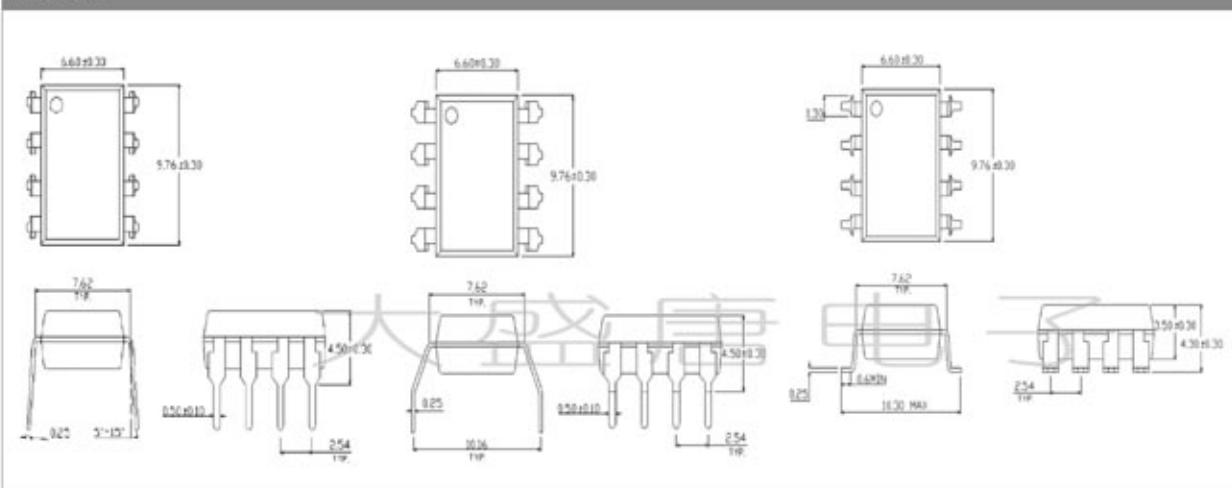
标准封装



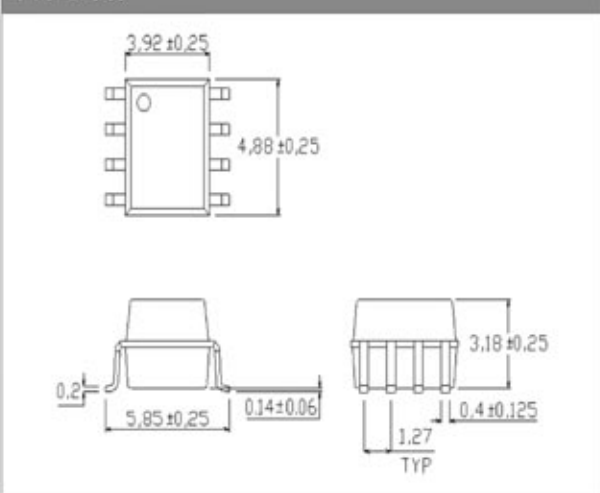
1Mbps/s and 10Mbps/s 光耦封装图



标准封装



半间距封装



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IGBT/MOSFET 驱动光耦 – ICPL3120



2.5A Output Current, High CME Gate Drive Optocoupler

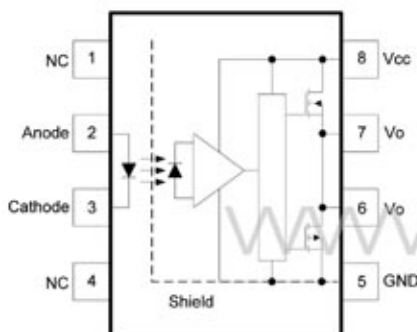


Description

The ICPL3120 optocoupler is ideally suited for driving power IGBTs and MOSFETs used in motor control inverter applications and inverters in power supply system. It contains a AlGaAs LED optically coupled to an integrated circuit with a power output stage. The 2.5A peak output current is capable of directly driving most IGBTs with ratings up to 1200 V/100 A. For IGBTs with higher ratings, the ICPL3120 series can be used to drive a discrete power stage which drives the IGBT gate.

The Optocoupler operational parameters are guaranteed over the temperature range from $-40^{\circ}\text{C} \sim +110^{\circ}\text{C}$.

Functional Diagram



Features

- 2.5 A maximum peak output current
- 25 kV/us minimum Common Mode Rejection (CMR) at $V_{CM} = 1500\text{ V}$
- 3.8 mA maximum supply current (I_{CC})
- Under Voltage Lock-Out protection (UVLO) with hysteresis
- Wide operating range: 15 to 30 Volts (V_{CC})
- Guaranteed performance over temperature $-40^{\circ}\text{C} \sim +110^{\circ}\text{C}$.
- Offer low power dissipation with $R_{ON} \leq 1\Omega$
- Fast switching speed, 500ns max propagation delay
- Safety approval: UL, cUL, VDE (In process)

Application

- IGBT/MOSFET gate drive
- Uninterruptible power supply (UPS)
- Industrial Inverter
- Induction heating

Truth Table

LED	$V_{CC}\text{-GND}$ (Turn-ON, +ve going)	$V_{CC}\text{-GND}$ (Turn-OFF, -ve going)	V_O
OFF	0 - 30 V	0 - 30 V	Low
ON	0 - 11.5 V	0 - 10 V	Low
ON	11.5 - 13.5 V	10 - 12 V	Transition
ON	13.5 - 30 V	12 - 30 V	High

A 0.1 μF bypass Capacitor must be connected between Pin 5 and 8. (Note 8)

ICPL3120 可以替代以下品牌光耦型号（注意：ICPL3120 供电电压为了 15V-30V，与其他品牌型号略有不同，但什么形状及功能基本相同。）

Feafures	Avago	Toshiba	Fairchild	NEC	Sharp	Vishay	Cosmo
1.Output current	HCPL-3120	TLP250	FOD3180	PS9552	PC925	VO3120	KTLP250
2.DIP8 package		TLP350					KTLP350



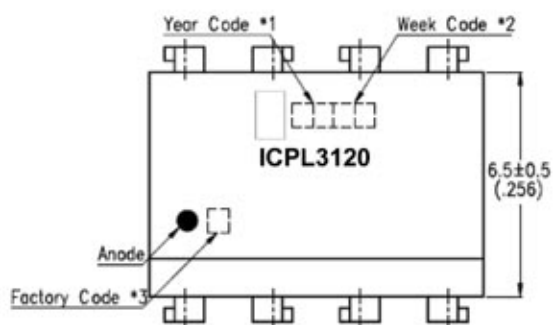
IGBT/MOSFET 驱动光耦 – ICPL3120

Ordering Information

Part	Option	Remarks
ICPL3120		DIP-8
	G	Wide Lead Spacing, DIP-8
	SM	Surface Mount, SMD-8
	T&R	Surface Mount, SMD-8, Pin 1 location at lower right of the reel
	T&R1	Surface Mount, SMD-8, Pin 1 location at upper left of the reel

Package Dimensions

8-pin DIP Package (ICPL3120)

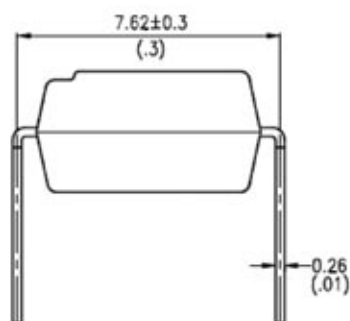
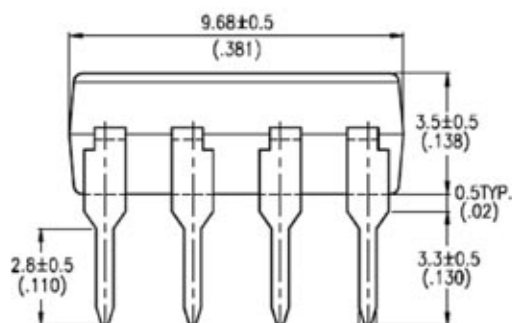


*1. Year date code.

*2. 2-digit work week.

*3. Factory identification mark

Dimensions are in Millimeters and (Inches).



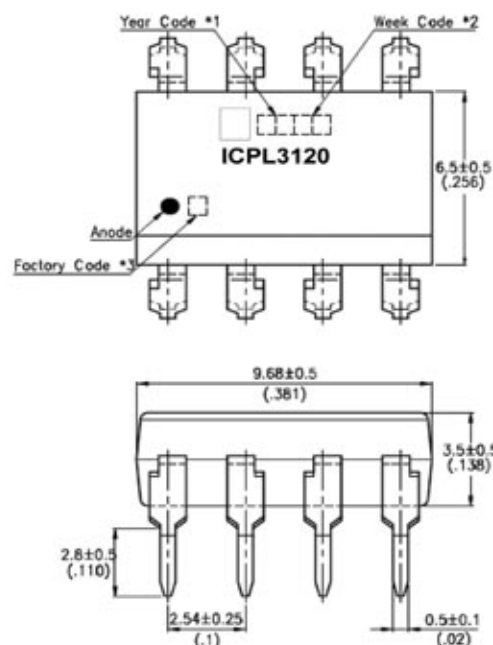


ISOCOM
COMPONENTS

IGBT/MOSFET 驱动光耦 - ICPL3120

Package Dimensions

8-pin DIP Wide Lead Spacing Package (ICPL3120G)

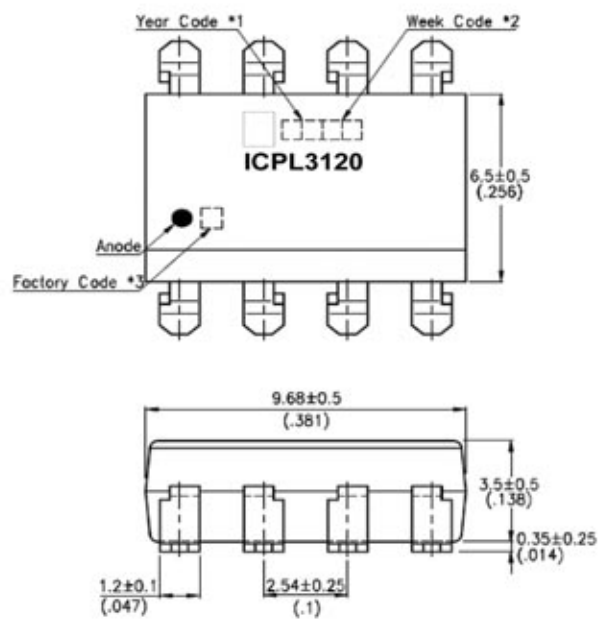


- *1. Year date code.
- *2. 2-digit work week.
- *3. Factory identification mark

Dimensions are in Millimeters and (Inches).

Package Dimensions

8-pin DIP Surface Mount Package (ICPL3120SM)



- *1. Year date code.
- *2. 2-digit work week.
- *3. Factory identification mark

Dimensions are in Millimeters and (Inches).

IGBT & High Speed



Cross List

Isocom Part No.	Avago Part No.	Fairchild Part No.	SHARP Part No.	NEC Part No.	Toshiba Part No.
6N135	6N135	6N135			
6N136	6N136	6N136			
6N137	6N137	6N137			
6N138	6N138	6N138			
6N139	6N139	6N139			
ICPL-3120	HCPL-3120				
ICPLW137	HCNW137				
ICPLW2601	HCNW2601				
ICPLW2611	HCNW2611				
ICPL2601	HCPL2601	HCPL2601			TLP554 TLP2601
ICPL2611	HCPL2611	HCPL2611		PS9587	
ICPL600	HCPLM600				
ICPLM601	HCPLM601				TLP113 TLP115 TLP115A
ICPLM611	HCPLM611	FODM611	PC410L	PS9117A	
ICPL0630	HCPL0630	HCPL0637			
ICPL0631	HCPL0631	HCPL0638	PC4D10		
ICPL0661	HCPL0661	HCPL0639		PS9817A-2	
ICPL0600	HCPL0600	HCPL0600			
ICPL0601	HCPL0601	HCPL0601			
ICPL0611	HCPL0611	HCPL0611	PC410S	PS9817A-1	
ICPL2630	HCPL2630	HCPL2630			TLP2630
ICPL2631	HCPL2631	HCPL2631			TLP2631
ICPL2661	HCPL2661				
ICPLW135	HCNW135				
ICPLW136	HCNW136				
ICPL0500	HCPL0500	HCPL0500			
ICPL0501	HCPL0501	HCPL0501			
ICPL0530	HCPL0530	HCPL0530			
ICPL0531	HCPL0531	HCPL0531			
ICPL2530	HCPL2530	HCPL2530			TLP2530
ICPL2531	HCPL2531	HCPL2531			TLP2531
ICPL4502		HCPL4502			TLP559 TLP750 TLP759
ICPL4503		HCPL4503			
ICPL452		FODM452			TLP112 TLP112A TLP114A
ICPL453		FODM453	PC457	PS8101	
ICPL0452		HCPL0452			
ICPL0453		HCPL0453	PC457S		