



宜技科技有限公司
IC-HI TECHNOLOGY CO., LTD.

OPTO MOSFET OUTPUT PHOTO-RELAY SELECTION GUIDE

光電繼電器選購指南

SINCE 1993



APPLICATIONS

- 蓄電系統 (充放電力, 絶緣檢測, 電池監控)
- 智慧電錶 (主要繼電器驅動, 數據通信設備)
- 自動檢針 (測量儀器, 醫療儀器)
- 工業控制 (工廠自動化, 工業電腦, OA設備)
- 一般應用 (掃描器應用, 防範/防災機具, 通信設備)

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SOP 4

Isolation V: 1500 VAC

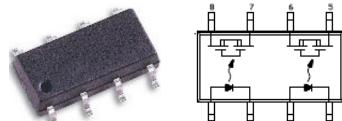


ichitech	Contact	Load Voltage (V)	Load Current (mA)	On Resistance (Typ. Ω)	Capacitance (Typ. pF)	Leakage Current (Max. nA)	Turn-On / Off Time (ms)
HY311GS	1a	20	1700	0.5	500	500	1.5 / 0.1
HY311DGS	1a	20 (DC Only)	5000	0.2	500	500	0.5 / 0.03
HY311G2S	1a	40	2500	0.06	150	500	0.8 / 0.02
HY311DG2S	1a	40 (DC Only)	3500	0.05	240	100	0.4 / 0.03
HY311G3S	1a	40	3000	0.033	240	500	1.5 / 0.02
HY321NS	1a	40	200	1.5 (Low C*R)	5 (Low C*R)	10	0.03 / 0.1
HY312FS	1a	60	120	5	25	10	0.05 / 0.03
HY312ES	1a	60	200	2	12	500	0.15 / 0.05
HY322RS	1a	60	500	0.8 (Low R)	28	10	0.25 / 0.02
HY312S	1a	60	500	0.8	28	500	0.35 / 0.1
HY312GS	1a	60	800	0.3	115	500	1.0 / 0.6
HY312G2S	1a	60	1300	0.13	115	500	1.0 / 0.6
HY352GS	1a	60	2500	0.06	150	500	1.5 / 0.1
HY322NS	1a	60	120	4.5	5 (Low C)	10	0.05 / 0.03
*HY312EHTS	1a	60	200	2	12	500	0.15 / 0.05
*HY312HTS	1a	60	350	0.13	115	500	1.0 / 0.6
HY325NS	1a	80	80	35	3 (Low C)	10	0.03 / 0.05
HY325N1S	1a	80	80	20	6 (Low C)	1	0.03 / 0.05
HY315GS	1a	100	400	2	22	500	0.3 / 0.05
HY315G2S	1a	100	1250	0.13	115	500	1.0 / 0.06
HY317S	1a	200	180	5	115	500	0.4 / 0.05
HY313S	1a	250	150	9	45	500	0.3 / 0.1
HY310S	1a	350	120	22	41	500	0.3 / 0.05
HY310GS	1a	350	250	12	150	500	0.6 / 0.03
HY314S	1a	400	100	20	45	500	0.23 / 0.03
HY314GS	1a	400	120	20	45	500	0.23 / 0.03
HY314G2S	1a	400	250	8	85	500	0.6 / 0.03
HY316S	1a	600	80	35	115	500	0.3 / 0.02
HY512S	1b	60	500	0.8	165	1000	0.5 / 0.25
HY514S	1b	400	120	20	165	10000	0.5 / 0.02

* = Operating Temperature 105°C

SOP 8

Isolation V: 1500 VAC



ichitech	Contact	Load Voltage (V)	Load Current (mA)	On Resistance (Typ. Ω)	Capacitance (Typ. pF)	Leakage Current (Max. nA)	Turn-On / Off Time (ms)
HW311G2S	2a	40	2500	0.06	150	100	0.8 / 0.02
HW312GS	2a	60	800	0.3	115	1000	1.0 / 0.6
HW312G2S	2a	60	1100	0.13	115	1000	1.0 / 0.6
HW322RS	2a	60	400	0.8 (Low R)	28	10	0.25 / 0.02
HW315G2S	2a	100	1100	0.13	115	1000	1.0 / 0.06
HW317S	2a	200	180	5	115	1000	0.4 / 0.05
HW310FS	2a	350	120	17	41	10	0.06 / 0.05
HW314S	2a	400	100	20	45	1000	0.23 / 0.03
HW316S	2a	600	80	35	115	1000	0.3 / 0.02
HW512S	2b	60	400	0.8	165	1000	0.5 / 0.25
HW514S	2b	400	120	20	165	10000	0.5 / 0.02
HW712S	1a + 1b	60	400	NO: 1 ; NC: 1	165	10000	NO:0.23 / 0.03 NC:0.02 / 0.5
HW714S	1a + 1b	400	120	20	165	10000	NO:0.23 / 0.03 NC:0.02 / 0.5

SMD / DIP 6

Isolation V: 3750 VAC



ichitech	Contact	Load Voltage (V)	Load Current (mA)	On Resistance (Typ. Ω)	Capacitance (Typ. pF)	Leakage Current (Max. nA)	Turn-On / Off Time (ms)
HV311G2(A)	1a	40	3000	0.06	100	1000	1.0 / 0.02
HV311G3(A)	1a	40	3500	0.043	690	1000	1.5 / 0.05
HV311G4(A)	1a	40	4500	0.033	690	1000	5.0 / 2.0
*HV312HT	1a	60	500	0.17	300	10000	1.2 / 0.05
HV352G(A)	1a	60	2500	0.1	165	1000	2.0 / .01
HV315G2(A)	1a	100	2000	0.15	115	1000	1.0 / 0.35
HV355G4(A)	1a	100	4500	0.033	1000	1000	1.0 / 0.03
HV314(A)	1a	400	120	20	110	1000	0.23 / 0.05
HV316(A)	1a	600	80	35	100	1000	0.5 / 0.02
HV358(A)	1a	1500	20	380	35	10000	0.1 / 0.06
HV512(A)	1b	60	500	1	165	1000	0.2 / 0.5
HV514(A)	1b	400	120	20	165	10000	0.02 / 0.5

* = Operating Temperature 105°C

SMD / DIP 8

Isolation V: 3750 VAC



ichitech	Contact	Load Voltage (V)	Load Current (mA)	On Resistance (Typ. Ω)	Capacitance (Typ. pF)	Leakage Current (Max. nA)	Turn-On / Off Time (ms)
HW311G2(A)	2a	40	2500	0.06	190	1000	0.8 / 0.02
HW312G2(A)	2a	60	1100	0.27	115	1000	1.5 / 0.05
HW315(A)	2a	100	400	2	22	1000	0.3 / 0.05
HW314(A)	2a	400	130	20	110	1000	0.23 / 0.03
HW316(A)	2a	600	80	35	100	1000	0.5 / 0.02
HW512(A)	2b	60	400	1	165	1000	0.5 / 0.25
HW514(A)	2b	400	120	20	165	10000	0.02 / 0.5
HW712(A)	1a + 1b	60	400	NO: 1 ; NC: 6	150	10000	NO:0.23 / 0.03 NC:0.2 / 0.5
HW714(A)	1a + 1b	400	120	NO: 20 ; NC: 20	150	NO: 1000 ; NC: 10000	NO:0.23 / 0.03 NC:0.2 / 0.5

H

Y

3

1

1

G

S

Y : 1-CH (4pin)
V : 1-CH (6pin)
W : 2-CH (8pin)

"3"
1FormA(AC/DC)
2FormA(AC/DC)
"5"
1FormB(AC/DC)
2FormB(AC/DC)
"7"
1FormA & 1FormB
(AC/DC)

1: General type
2: RF type (New)
0: 350V
1: 20 to 40V
2: 50 to 60V
3: 250V
4: 400V
5: 80V to 100V
6: 600V
7: 200V
9: 1000V

Blank: Standard
DG: DC only
E: Economical
G: Highcapacity
N: Low C
R: Low R
HT: OT +105°C
F: Fast switch

Blank: DIP (through hole)
A: SMD (Surface mount)
S: SOP
V: SSOP (New)

CROSS REFERENCE 產品對照

ICHI	Panasonic	TOSHIBA	OMRON	IXYS/ CP Clare	OKITA	SSO	VISHAY	COSMO
HY311G2S	AQY211G2S	TLP3123	G3VM-41GR6	CPC1020N	AB26S			
HY311DG2S								
HY312ES		TLP3111	G3VM-61VY1	CPC1017N/ CPC1117NTR	AB45S	M271/M272	VO1400AEF	
HY322RS	AQY222R1S							
HY312S	AQY212S	TLP172A	G3VM-61G1	CPC1014N	AB37S	M261		KAQY212S
HY312GS	AQY212GS			CPC1019N/ CPC1002NTR		M251		
HY312G2S	AQY212G2S	TLP3122		CPC1020NTR		M281		
HY325NS			G3VM-81G1		AB46S			
HY315GS					AB48S			
HY315G2S					AB47S			
HY317S		TLP179D	G3VM-S5		AB34S	M241		KAQY217S
HY310S	AQY210S	TLP174G	G3VM-351G	CPC1030N	AB31S	M221	LH1546AEF	KAQY210S
HY310GS						M231		KAQY213S
HY314S	AQY214S/ AQY284	TLP174GA	G3VM-401G	CPC1025N/ CPC1225N	AB30S	M211	VOR1142M4	KAQY214S
HY316S		TLP170J			AB38S			KAQY216S
HY512S	AQY412S			CPC1117N	AG70S	M272		KAQY416S
HY514S	AQY414S	TLP4176G	G3VM-353G	CPC1125N	AG74S,AG71S	M212		KAQY414S
HW311G2S					AC26S			
HW317S	AQW223R2S	TLP200D			AC34S			KAQW217S
HW314S	AQW214S	TLP206GA		CPC2025N	AC30S			KAQW214S
HW316S	AQW216							KAQW216S
HW512S								
HW514S								
HW712S	AQW612S		G3VM-63G	CPC2317N	AK70S			KAQW612S
HW714S	AQW610S	TLP4026G	G3VM-355JR	CPC2230N	AK74S,AK71S			KAQW614S

ROAD MAP