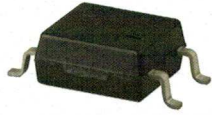




宜技科技有限公司

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, 絕緣檢測, 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)

Add 23585新北市中和區建一路177號7樓

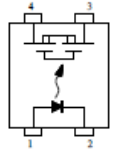
Web <http://ichitech.com.tw>

Tel 02-2222-9677

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# SOP 4

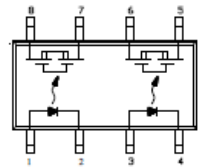
Isolation V: 1500 VAC



ichitech	Contact	Load Voltage (V)	Load Current (mA)	On Resistance (Typ. Ω)	Capacitance (Typ. pF)	Leakage Current (Max. nA)
HY311GS	1a	20	1700	0.2	500	200
HY311DGS	1a	20 (DC Only)	5000	0.2	500	500
HY311G2S	1a	40	2500	0.06	190	500
HY311DG2S	1a	40 (DC Only)	3500	0.05	240	100
HY312ES	1a	60	200	2	115	500
HY322RS	1a	60	400	0.8 (Low C*R)	28	10
HY312S	1a	60	500	0.8	28	500
HY312GS	1a	60	800	0.3	115	500
HY312G2S	1a	60	1300	0.13	115	500
HY325NS	1a	80	30	20	6 (Low C*R)	10
HY315GS	1a	100	400	2	110	500
HY315G2S	1a	100	1250	0.13	170	500
HY317S	1a	200	180	5	115	500
HY310S	1a	350	120	17	115	500
HY310GS	1a	350	250	12	330	500
HY314S	1a	400	100	20	115	500
HY314GS	1a	400	250	8	20	500
HY316S	1a	600	80	35	115	500
HY512S	1b	60	500	1	165	1000
HY514S	1b	400	120	20	165	10000

# 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)
HW311GS	2a	20	1700	0.2	500	200
HW311DGS	2a	20 (DC Only)	5000	0.2	500	1000
HW311G2S	2a	40	2500	0.06	190	1000
HW311DG2S	2a	40 (DC Only)	3500	0.05	240	1000
HW312S	2a	60	500	0.8	28	1000
HW312GS	2a	60	800	0.3	115	1000
HW312G2S	2a	60	1300	0.13	115	1000
HW315G2S	2a	100	1250	0.13	170	500
HW317S	2a	200	180	5	115	1000
HW310S	2a	350	120	17	115	1000
HW310GS	2a	350	250	12	330	1000
HW314S	2a	400	100	20	115	1000
HW314GS	2a	400	250	8	20	1000
HW316S	2a	600	80	35	115	1000
HW512S	2b	60	400	1	165	1000
HW514S	2b	400	120	20	165	10000
HW712S	1a + 1b	60	400	NO: 1 ; NC: 3	165	NO: 500 ; NC: 10000
HW714S	1a + 1b	400	120	NO: 20 ; NC: 20	165	NO: 500 ; NC: 10000

## SMD / DIP 4

Isolation V: 3500 VAC



ichitech	Contact	Load Voltage (V)	Load Current (mA)	On Resistance (Typ. Ω)	Capacitance (Typ. pF)	Leakage Current (Max. nA)
HY311G2(A)	1a	40	2000	0.06	190	1000
HY312(A)	1a	60	400	1	115	1000
HY312G2(A)	1a	60	1100	0.27	115	1000
HY317(A)	1a	200	200	5	115	1000
HY314(A)	1a	400	130	20	115	500
HY512(A)	1b	60	500	1	115	1000
HY514(A)	1b	400	120	20	115	10000

## SMD / DIP 6

Isolation V: 3500 VAC



ichitech	Contact	Load Voltage (V)	Load Current (mA)	On Resistance (Typ. Ω)	Capacitance (Typ. pF)	Leakage Current (Max. nA)
HV312(A)	1a	60	500	1	115	500
HV312G2(A)	1a	60	1100	0.3	115	1000
HV315(A)	1a	80	120	8	115	500
HV317(A)	1a	200	200	5	115	500
HV314(A)	1a	400	130	20	115	500
HV512(A)	1b	60	500	1	115	1000
HV514(A)	1b	400	120	20	115	10000

## SMD / DIP 8

Isolation V: 3500 VAC



ichitech	Contact	Load Voltage (V)	Load Current (mA)	On Resistance (Typ. Ω)	Capacitance (Typ. pF)	Leakage Current (Max. nA)
HW311G2(A)	2a	40	2000	0.06	190	1000
HW312(A)	2a	60	400	1	115	1000
HW312G2(A)	2a	60	1100	0.27	115	1000
HW317(A)	2a	200	200	5	115	1000
HW314(A)	2a	400	130	20	115	1000
HW512(A)	2b	60	500	1	115	1000
HW514(A)	2b	400	120	20	115	10000
HW712(A)	1a + 1b	60	400	NO: 1 ; NC: 3	115	NO: 500 ; NC: 10000
HW714(A)	1a + 1b	400	120	NO: 20 ; NC: 20	115	NO: 500 ; NC: 10000

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

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

# CROSS REFERENCE 產品對照

	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
HY314GS								
HY316S		TLP170J			AB38S			KAQY216S
HY512S	AQY412S			CPC1117N	AG70S	M272		KAQY416S
HY514S	AQY414S	TLP4176G	G3VM-353G	CPC1125N	AG74S,AG71S	M212		KAQY414S
HW311G2S					AC26S			
HW311DG2S								
HW312ES				CPC2017N	AC45S			
HW312S	AQW212S	TLP206A		CPC2014N	AC37S			KAQW212S
HW315S					AC46S			
HW317S	AQW223R2S	TLP200D			AC34S			KAQW217S
HW310S	AQW210S	TLP206G		CPC2030N	AC31S			KAQW210S
HW310GS								KAQW213S
HW314S	AQW214S	TLP206GA		CPC2025N	AC30S			KAQW214S
HW314GS		TLP3215						
HW316S	AQW216							KAQW216S
HW512S								
HW514S								
HW712S	AQW612S		G3VM-63G	CPC2317N	AK70S			KAQW612S
HW714S	AQW610S	TLP4026G	G3VM-355JR	CPC2230N	AK74S,AK71S			KAQW614S

## ROAD MAP

	20V	40V	60V	80V	100V	200V	350V	400V	600V
5000mA	HY311DGS HW311DGS								
4000mA		HY311DG2S HW311DG2S							
2000mA		HY311G2S HW311G2S HY311G2(A) HW311G2(A)							
1700mA	HY311GS HW311GS								
1300mA			HY312G2S HW312G2S		HY315G2S HW315G2S				
1100mA		S703S	HY312G2(A) HV312G2(A) HW312G2(A)						
800mA			HY312GS HW312GS						
500mA			HY312S HY512S HW312S HY512(A) HV312(A) HW512(A) HW512(A)						
400mA			HY322RS HW512S HW712S HY312(A) HW312(A) HW712(A)		HY315GS				
250mA							HY310GS HW310GS	HY314GS HW314GS	
200mA			HY312ES HW312ES			HY317(A) HV317(A) HW317(A)			
180mA						HY317S HW317S			
120mA				HY315(A) HV315(A) HW315(A)			HY310S HW310S HY310(A) HV310(A) HW310(A)	HY514S HW514S HW714S HY314(A) HY514(A) HV314(A) HV514(A) HW314(A) HW514(A) HW714(A)	
100mA								HY314S HW314S	
80mA									HY316S HW316S
30mA				HY325NS HW325NS					