



WISELITE Optronics Co.,Ltd.

喆光照明光電股份有限公司



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公司簡介

Company Profile

喆光照明光電股份有限公司隸屬於喆富集團，成立於西元2014年；公司主要營業項目為光耦與驅動IC集成封裝半導體產品的研發與銷售，並為客戶提供完整電源類系統解決方案，是一家專注於電子電力產業鏈的專業供應商。

喆光除了致力於傳統消費性電源、家電、工控、儲能領域外，同時積極布局於車用電源領域，產品開發往高效能、低功耗方向進行；喆光以集團內自行開發的IC晶片搭配具有專利特殊封裝技術開發出市場獨一無二的高性能光耦產品配合高品質的封裝製造管理，期待提供終端客戶區別於市場傳統光耦的使用體驗。

面對持續蓬勃發展的半導體產業，喆光將不斷推陳出新，持續開發出更佳新穎與更具競爭力的產品與系統方案，並不斷吸納行業內專業的菁英人才，持續維持高度行業競爭力，使公司成為全球半導體領域最具影響力的公司之一。



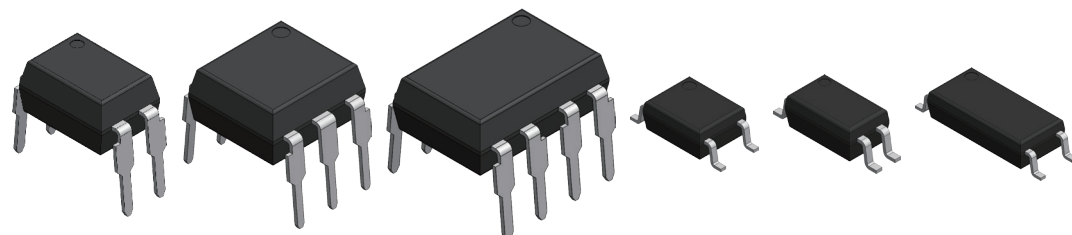
WISELITE Optronics Co.,Ltd. belongs to WISETOP Group and was established in 2014. The company's main business items are the R&D and sales of optocoupler and driver IC products. Which provided customers with completed power supply system solutions. Who is a professional supplier focusing on the electronic power industry chain.

In addition to being committed to the traditional consumer power supply, home appliances, industrial control, and energy storage fields, WISELITE is also actively deploying in the field of automotive power supplies. Product development is carried out in the direction of high efficiency and low power consumption. WISELITE uses IC chips developed by the group combined with patented special packaging technology to develop unique high-performance optocoupler products in the market. Along with high-quality packaging manufacturing management, WISELITE look forward to providing end customers with an experience that is different from traditional optocouplers in the market.

Facing the continuous and vigorous development of the semiconductor industry, WISELITE will continue to innovate and develop better, novel and more competitive products and system solutions. By continuing to absorb professional elite talents in the market to maintain a high degree of industry competitiveness. Make the company one of the most influential companies in the global semiconductor field.



Photo Coupler Series



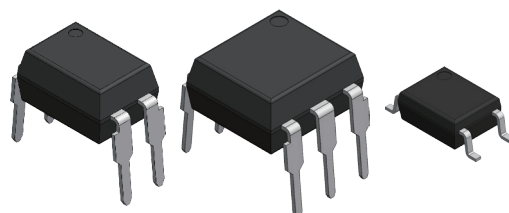
Transistor

Part no.	PKG	Speed Series	Function	Number of Channels	I _F (mA)	BV _{ceo} (V)	CTR ² (V)	T _r (μs)	T _f (μs)	T _{opr} (°C)	V _{iso} (V _{rms})
MPC816X1	DIP4 ¹		DC Photo Transistor	1	5	80	50~600	3	4	110	5000
MPCS-816	DIP4 ¹	*	DC Photo Transistor	1	5	80	50~600	0.3	1.3	110	5000
MPC817X1	DIP4 ¹		DC Photo Transistor	1	5	35	50~600	3	4	110	5000
MPC814X1	DIP4 ¹		AC Photo Transistor	1	1	80	20~400	7	9	110	5000
MPCS-814	DIP4 ¹	*	AC Photo Transistor	1	1	80	20~400	0.3	1.3	110	5000
MPC815	DIP4 ¹		DC Darlington Transistor	1	1	40	600~7500	60	53	110	5000
MPC851	DIP4 ¹		DC High Voltage Transistor	1	5	350	50~600	5	8	110	5000
MPC852	DIP4 ¹		DC High Voltage Darlington Transistor	1	1	350	1000~15000	90	20	110	5000
4N25	DIP6 ¹		DC Photo Transistor	1	10	80	>20	6	8	110	5000
CNY17	DIP6 ¹		DC Photo Transistor	1	10	80	40~320	6	8	110	5000
MPC827	DIP8 ¹		DC Photo Transistor	2	5	80	50~600	3	4	110	5000
MPC356	SOP4		DC Photo Transistor	1	5	80	50~600	3	4	110	3750
MPCS-356	SOP4	*	DC Photo Transistor	1	5	80	50~600	3	4	110	3750
MPC357	SOP4		DC Photo Transistor	1	5	35	50~600	3	4	110	3750
MPC354	SOP4		AC Photo Transistor	1	1	80	20~400	7	9	110	3750
MPCS-354	SOP4	*	AC Photo Transistor	1	1	80	20~400	0.3	1.3	110	3750
MPC351	SOP4		DC High Voltage Transistor	1	5	350	50~600	3	5	110	3750
MPC352	SOP4		DC High Voltage Darlington Transistor	1	1	350	1000~15000	90	20	110	3750
MPC355	SOP4		DC Darlington Transistor	1	1	40	600~7500	95	95	110	3750
MPCS-217	SSOP4	*	DC Photo Transistor	1	5	80	50~600	0.3	1.3	110	3750
MPCS-214	SSOP4	*	AC Photo Transistor	1	1	80	20~400	0.3	1.3	110	3750
MPC101X	LSOP4		DC Photo Transistor	1	5	80	50~600	3	4	110	5000
MPCS-101X	LSOP4	*	DC Photo Transistor	1	5	80	50~600	0.3	1.3	110	5000

Note1: Forming option available
Note2: CTR option available



Photo Coupler Series



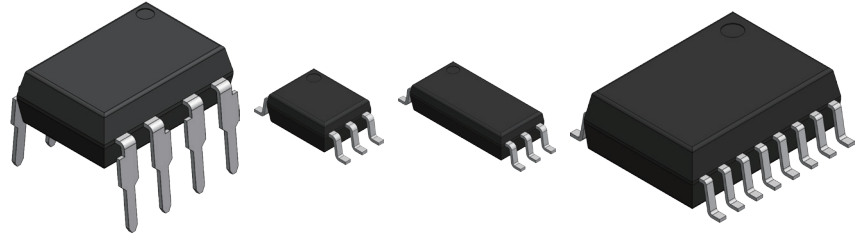
TRIAC

Part no.	PKG	Speed Series	Function	Number of Channels	I _{FT} (mA)	V _{DRM} (V)	dV/dT (V)	T _{opr} (°C)	V _{iso} (V _{rms})
MPC305X-4L	DIP4 ¹		DC Random-Phase Photo TRIAC	1	5/10/15	600	>5000	110	5000
MPC306X-4L	DIP4 ¹		DC Zero-Cross Photo TRIAC	1	5/10/15	600	>5000	110	5000
MPCS-305X-4L	DIP4 ¹	*	DC Random-Phase Photo TRIAC	1	5/10/15	600	>30000	110	5000
MPCS-306X-4L	DIP4 ¹	*	DC Zero-Cross Photo TRIAC	1	5/10/15	600	>30000	110	5000
MPC305X	DIP6 ¹		DC Random-Phase Photo TRIAC	1	5/10/15	600	>5000	110	5000
MPC306X	DIP6 ¹		DC Zero-Cross Photo TRIAC	1	5/10/15	600	>5000	110	5000
MPCS-305X	DIP6 ¹	*	DC Random-Phase Photo TRIAC	1	5/10/15	600	>30000	110	5000
MPCS-306X	DIP6 ¹	*	DC Zero-Cross Photo TRIAC	1	5/10/15	600	>30000	110	5000
MPCS-312X	DIP6 ¹	*	DC Zero-Cross Photo TRIAC	2	5/10/15	600	>30000	110	5000
MPCM305X	SOP4		DC Random-Phase Photo TRIAC	1	5/10/15	600	>5000	110	3750
MPCM306X	SOP4		DC Zero-Cross Photo TRIAC	1	5/10/15	600	>5000	110	3750
MPCS-M305X	SOP4	*	DC Random-Phase Photo TRIAC	1	5/10/15	600	>30000	110	3750
MPCS-M306X	SOP4	*	DC Zero-Cross Photo TRIAC	1	5/10/15	600	>30000	110	3750

Note1: Forming option available



Photo Coupler Series



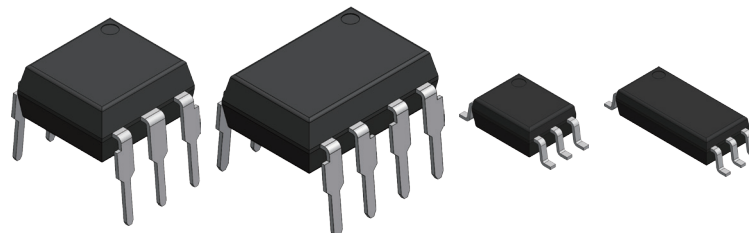
Gate Driver

Part no.	PKG	Speed Series	Function	Number of Channels	Peak Output Current (A) Max	t _{PLH} (nS) Max	t _{PHL} (nS) Max	C _M _L C _M _H (V/μs) Min	T _{opr} (°C)	V _{ISO} (V _{rms})
MPC3120	DIP8 ¹		DC 2.5A IGBT Gate Driver	1	2.5	300	300	20000	110	5000
MPC3150	DIP8 ¹		DC 1A IGBT Gate Driver	1	1	300	300	20000	110	5000
MPCS-3120	DIP8 ¹	*	DC 2.5A IGBT Gate Driver	1	2.5	110	110	20000	110	5000
MPCS-3150	DIP8 ¹	*	DC 1A IGBT Gate Driver	1	1	110	110	20000	110	5000
MPCS-155E	SOP5	*	DC 1A IGBT Gate Driver	1	1	110	110	20000	110	3750
MPCS-314	LSOP6 ¹	*	DC 1A IGBT Gate Driver	1	1	110	110	20000	110	5000
MPCS-341	LSOP6 ¹	*	DC 3A IGBT Gate Driver	1	3	110	110	20000	110	5000
MPCS-343	LSOP6 ¹	*	DC 4A IGBT Gate Driver	1	4	110	110	10000	110	5000
MPCS-5701	LSOP6 ¹	*	DC 0.8A IGBT Gate Driver	1	0.8	120	120	10000	110	5000
MPCS-330J	LSOP16	*	DC 1.5A IGBT Gate Driver	1	1.5	250	250	15000	110	5000
MPCS-331J	LSOP16	*	DC 1.5A IGBT Gate Driver	1	1.5	250	250	15000	110	5000
MPCS-332J	LSOP16	*	DC 2.5A IGBT Gate Driver	1	2.5	250	250	15000	110	5000
MPCS-333J	LSOP16	*	DC 2.5A IGBT Gate Driver	1	2.5	250	250	15000	110	5000
MPCS-5214	LSOP16	*	DC 4A IGBT Gate Driver	1	4	250	250	15000	110	5000

Note1: Forming option available



Photo Coupler Series



High Speed

Part no.	PKG	Speed Series	Function	Number of Channels	CTR ² (%)	I _{FT} (mA)	Data Transfer Rate (Mbit/s)	t _{PLH} (nS) Max	t _{PHL} (nS) Max	C _M (V/μs) Min	T _{opr} (°C)	V _{ISO} (V _{rms})
H11LX	DIP6 ¹		DC Schmitt Trigger	1	—	1.6/10/5	1	—	—	10000	110	5000
6N135	DIP8 ¹		DC 1Mbit/s High Speed Transistor	1	7~50	—	1	1500	1500	1000	110	5000
6N136	DIP8 ¹		DC 1Mbit/s High Speed Transistor	1	19~50	—	1	800	800	1000	110	5000
6N137	DIP8 ¹		DC 10Mbit/s High Speed Logic Gate	1	—	5	10	75	75	10000	110	5000
6N138	DIP8 ¹		DC Darlington High Speed Transistor	1	300~2000	—	0.3	3500	1000	1000	110	5000
6N139	DIP8 ¹		DC Darlington High Speed Transistor	1	500~2000	—	0.3	6000	2500	1000	110	5000
MPCS-6N136	DIP8 ¹	*	DC 1Mbit/s High Speed Transistor	1	19~50	—	1	250	650	15000	110	5000
MPCS-6N137	DIP8 ¹	*	DC 10Mbit/s High Speed Logic Gate	1	—	5	10	60	35	10000	110	5000
MPCM501	SOP5		DC 1Mbit/s High Speed Transistor	1	15~50	—	1	800	800	15000	110	3750
MPCM601	SOP5		DC 10Mbit/s High Speed Logic Gate	1	—	5	10	75	75	10000	110	3750
MPCS-50L	LSOP6 ¹	*	DC 1Mbit/s High Speed Transistor	1	20~100	—	1	250	650	15000	110	5000
MPCS-611	LSOP6 ¹	*	DC 10Mbit/s High Speed Logic Gate	1	—	5	10	60	35	10000	110	5000

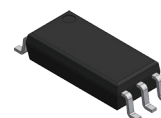
Note1: Forming option available

Note2: CTR option available



Photo Coupler Series

IPM

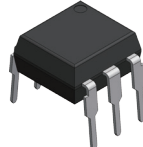
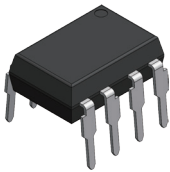
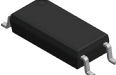
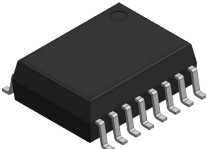


Part no.	PKG	Speed Series	Function	Number of Channels	CTR (%)	I _{FLH} (mA)	t _{PLH} (nS) Max	t _{PHL} (nS) Max	CM _L CM _H (V/μs) Min	T _{opr} (°C)	V _{ISO} (V _{rms})
MPCS-456	LSOP6 ¹	*	DC IPM and Gate Driver	1	200	—	600	400	15000	110	5000
MPCS-480	LSOP6 ¹	*	DC IPM	1	—	0.2	220	220	20000	110	5000
MPCS-481	LSOP6 ¹	*	DC IPM	1	—	0.25	220	220	20000	110	5000

Note1: Forming option available



PKG Information

PKG	Outline Drawing	Lead Forming Options	Dimensions LxWxH	External Creepage Distance	V _{ISO} (V _{rms})	Halogen Free Options
DIP4		Std. DIP	8.60x4.58x7.24mm	>8mm	5000V	Green or Non-Green
		OptionS	10.15x4.58x4.30mm			
		OptionSL	10.15x4.58x3.60mm			
		OptionM	10.16x4.58x7.02mm			
		OptionSLM	11.80x4.58x3.75mm			
DIP6		Std. DIP	8.60x7.12x7.24mm	>8mm	5000V	Green or Non-Green
		OptionS	10.15x7.12x4.30mm			
		OptionSL	10.15x7.12x3.60mm			
		OptionM	10.16x7.12x7.02mm			
		OptionSLM	11.80x7.12x3.75mm			
DIP8		Std. DIP	8.60x9.76x7.24mm	>8mm	5000V	Green or Non-Green
		OptionS	10.15x9.76x4.30mm			
		OptionSL	10.15x9.76x3.60mm			
		OptionM	10.16x9.76x7.02mm			
		OptionSLM	11.80x9.76x3.75mm			
SOP4		SMD Type	7.00x3.60x2.10mm	>5mm	3750V	Green
SSOP4		SMD Type	7.00x2.70x2.10mm	>5mm	3750V	Green
LSOP4		SMD Type	10.20x3.60x2.10mm	>8mm	5000V	Green
SOP5		SMD Type	7.00x3.60x2.10mm	>5mm	3750V	Green
LSOP6		OptionSP	9.70x4.50x2.00mm	>8mm	5000V	Green
		OptionSW	11.50x4.50x2.00mm			
SOP16		SMD Type	10.00x10.30x1.80mm	>8mm	5000V	Green

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