

2023-Dec-8

Version: 2.0

CT Micro Photo Coupler Selection Guide

Customer Oriented and Technology Driven

www.ct-micro.com

Introduction

Transistor Output

- Transistor
- Darlington
- Schmitt Trigger

Analog Output

- 0.1 Mbit/s
- 1 Mbit/s

Digital Output

- 10 Mbit/s

Triac Output

- Photo Triac

Power Triac

- Photo Power Triac

SSR Relay

- Photo MOS Relays

PVG Output

- Photovoltaic Generator (PVG) MOSFET Driver

IPM

- Intelligent Power Module(IPM) interface

IGBT Gate Driver

- (Smart) Isolated IGBT/MOSFET Gate Driver

Linearity

- Linearity Coupler

The photo coupler is a device that transmit electrical signals through light as a medium.

Its function is to isolate the circuit between input and output.

CT provides a series of products with various packaging types that can meet the different needs of customers.

Application Selection

Communication

- High Speed Coupler
- Transistor
- Photo MOS Relays (SSR)



Industry

- Photo MOS Relays (SSR)
- (High Power) Transistor
- High Speed Coupler
- Photo Triac
- Schmitt Trigger

Switch Control

- Photo MOS Relays (SSR)
- Transistor
- Photo Triac/Power Triac
- Schmitt Trigger



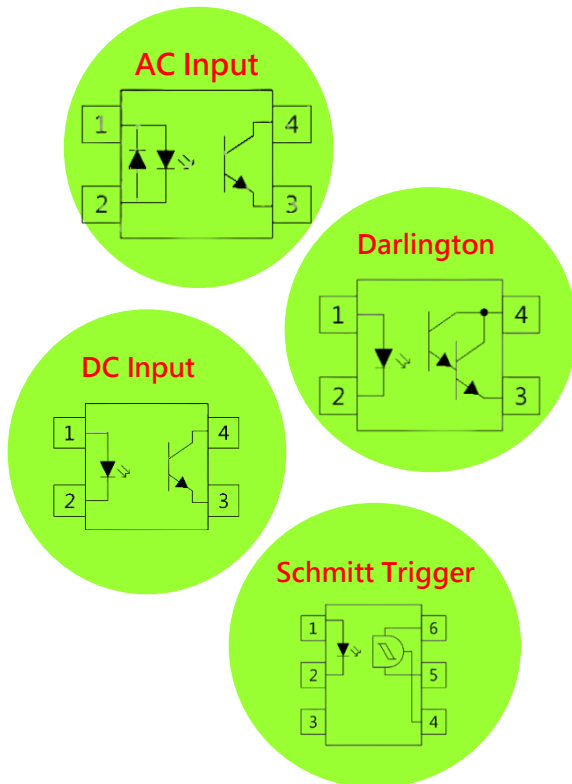
Power Control

- Photo Triac
- (High Power) Transistor
- Isolated IGBT MOSFET Gate Driver
- Intelligent Power Module (IPM) interface

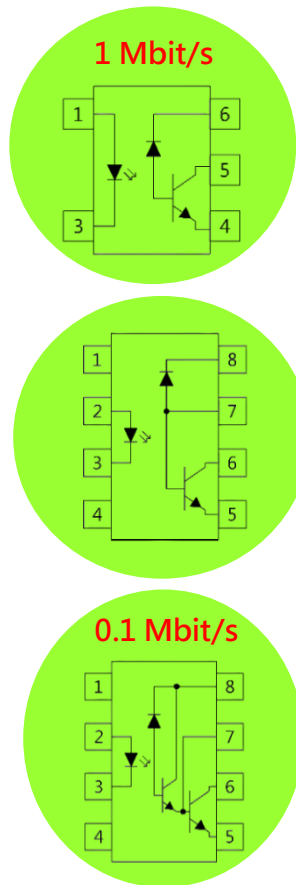


Photo Coupler Product Lineup 1/2

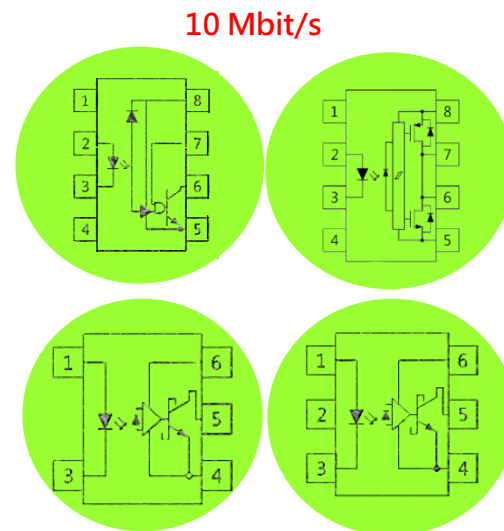
Transistor Output



Analog Output



Digital Output



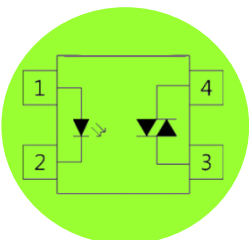
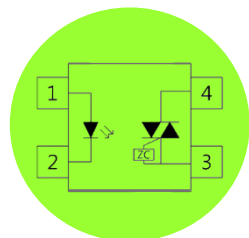
※ Press the coupler type above for detail information.

Customer Oriented and Technology Driver.

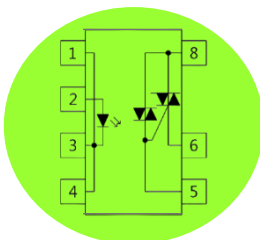
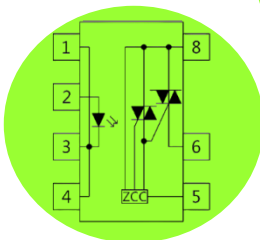


Photo Coupler Product Lineup 2/2

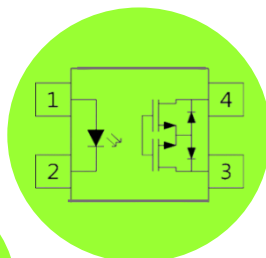
**Triac
Output**



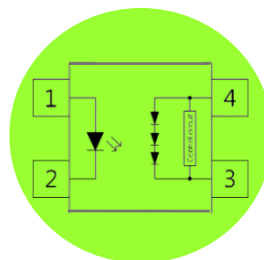
**Power
Triac**



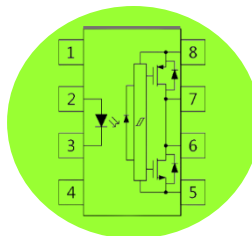
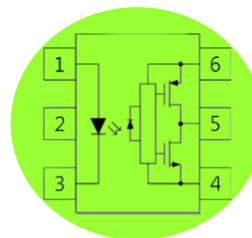
**Solid State
Relay (SSR)**



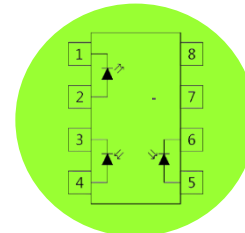
**PVG
Output**



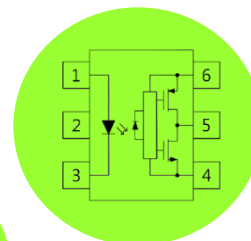
**(Smart)
IGBT Gate
Driver**



**Linearity
Coupler**



IPM



※ Press the coupler type above for detail information.

Customer Oriented and Technology Driver.





General Photo Coupler

Transistor Output



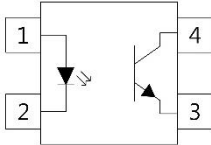
AC Input

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Input	CTR				BV _{CEO} Min. (V)	T _{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@I _F /V _{CE}		
CT814		DIP-4	5000	AC	-	20	300	±1mA/5V	80	-55~110
					A	50	150			
					B	100	300			
CT354		MFP-4L	3750	AC	-	20	300	±1mA/5V	80	-55~110
					A	50	150			
					B	100	300			
CTH214		Half Pitch MFP-4L (SSOP-4)	3750	AC	-	20	300	±1mA/5V	80	-55~110
					A	50	150			
					B	100	300			
CTH244		Half Pitch MFP-16L (SSOP-16)	3750	AC	-	20	300	±50mA /0.2V	80	-55~125
					A	50	150			
					B	100	300			
					GB	100	400			

Transistor Output



DC Input

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Input	CTR				BV _{CEO} Min. (V)	T _{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@I _F /V _{CE}		
CT816		DIP-4	5000	DC	-	50	600	5mA/5V	80	-55~110
					A	80	160			
					B	130	260			
					C	200	400			
					D	300	600			
					F	100	200			
					Y	200	300			
					I	63	125	10mA/5V		
					J	100	200			
					K	160	320			
					N	40	80			
					I	22	-	1mA/5V		
					J	34	-			
					K	56	-			
					N	13	-			

Transistor Output



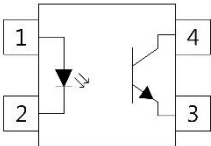
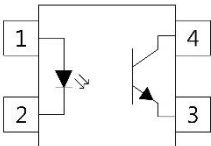
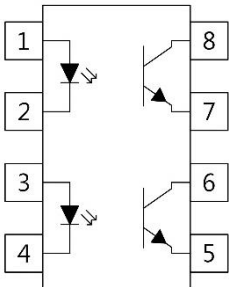
DC Input

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Input	CTR				BV_{CEO} Min. (V)	T_{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@ I_F/V_{CE}		
CT816L		DIP-4	5000	DC	L2	63	125	0.5mA / 1.5V	80	-55~110
					L3	100	200			
					L4	160	320			
					L5	250	500			
CT816D3					D3	300	450	5mA/5V		
CT817		DIP-4	5000	DC	-	50	600	5mA/5V	35	-55~110
					A	80	160			
					B	130	260			
					C	200	400			
					D	300	600			
CT827		DIP-8	5000	DC	-	50	600	5mA/5V	80	-55~110
					A	80	160			
					B	130	260			

Transistor Output



DC Input

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Input	CTR				BV _{CEO} Min. (V)	T _{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@I _F /V _{CE}		
CTP17		DFN	2500	DC	-	100	600	1mA/5V	80	-55~125
					B	100	300			
					C	200	400			
					D	300	600			
CT357		MFP-4L	3750	DC	-	50	600	5mA/5V	80	-55~110
					A	80	160			
					B	130	260			
					C	200	400			
					D	300	600			
CTD20X		SOP-8	3750	DC	CTD206	63	125	10mA/5V	80	-55~110
					CTD207	100	200			
					CTD208	40	125			
					CTD211	20	-			
					CTD213	100	-			
					CTD206	22	-	1mA/5V		
					CTD217	100	-			

Transistor Output



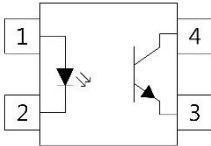
DC Input

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Input	CTR				BV_{CEO} Min. (V)	T_{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@ I_F/V_{CE}		
CTM131		MFP-5L	3750	DC	-	50	600	5mA/5V	80	-55~110
					A	50	150			
					B	100	300			
					C	100	600			
					D	200	600			
CTH217		Half Pitch MFP-4L (SSOP-4)	3750	DC	-	50	600	5mA/5V	80	-55~125
					A	80	160			
					B	130	260			
					C	200	400			
					D	300	600			
CTH247		Half Pitch MFP-16L (SSOP-16)	3750	DC	-	50	600	5mA/5V	80	-55~125
					A	80	160			
					B	130	260			
					C	200	400			

Transistor Output



DC Input

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Input	CTR				BV _{CEO} Min. (V)	T _{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@I _F /V _{CE}		
CT101X-W		Long Creepage- 4L (LSOP-4)	5000	DC	CT1012-W	22	-	1mA/5V	80	-55~125
					CT1013-W	34	-			
					CT1014-W	56	-			
					CT1011-W	60	300	10mA/5V		
					CT1012-W	63	125			
					CT1013-W	100	200			
					CT1014-W	160	320	5mA/5V		
					CT1010-W	50	600			
					CT1015-W	50	150			
					CT1016-W	100	300			
					CT1017-W	80	160			
					CT1018-W	130	260			
					CT1019-W	200	400			

Transistor Output



DC Input

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Input	CTR				BV _{CEO} Min. (V)	T _{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@I _F /V _{CE}		
CNY17-X		DIP-6	5000	DC	CNY17-1	40	80	10mA/5V	80	-55~110
					CNY17-2	63	125			
					CNY17-3	100	200			
					CNY17-4	160	320			
					CNY17-1	13	-	1mA/5V		
					CNY17-2	22	-			
					CNY17-3	34	-			
					CNY17-4	56	-			
CNY17F-X		DIP-6	5000	DC	CNY17F-1	40	80	10mA/5V	80	-55~110
					CNY17F-2	63	125			
					CNY17F-3	100	200			
					CNY17F-4	160	320			
					CNY17F-1	13	-	1mA/5V		
					CNY17F-2	22	-			
					CNY17F-3	34	-			
					CNY17F-4	56	-			

Transistor Output



DC Input

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Input	CTR				BV_{CEO} Min. (V)	T_{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@ I_F/V_{CE}		
4N2X		DIP-6	5000	DC	4N25	20	-	10mA/10V	80	-55~110
					4N26	20	-			
					4N27	10	-			
					4N28	10	-			
4N3X		DIP-6	5000	DC	4N35	100	-	10mA/10V	80	-55~110
					4N36	100	-			
					4N37	100	-			
					4N38	20	-			

DC Input, High Power

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Input	CTR				BV_{CEO} Min. (V)	T_{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@ I_F/V_{CE}		
CT851		DIP-4	5000	DC	—	50	600	5mA/5V	350	-55~110
CT451		MFP-4L	3750	DC	—	50	600	5mA/5V	350	-55~125

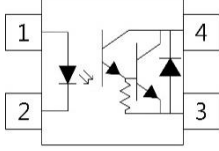


Photo Darlington Optocoupler

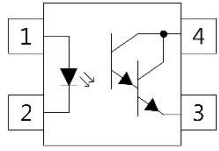
Transistor Output-Darlington



Power Darlington

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Input	CTR				BV_{CEO} Min. (V)	T_{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@ I_F/V_{CE}		
CT852		DIP-4	5000	DC	-	1000	15000	1mA/2V	350	-55~100
CT452		MFP-4L	3750	DC	-	1000	15000	1mA/2V	350	-55~110

DC input with Darlington output

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Input	CTR				BV _{CEO} Min. (V)	T _{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@I _F /V _{CE}		
CT815		DIP-4	5000	DC	-	600	7500	1mA/2V	40	-55~110
CT415		MFP-4L	3750	DC	-	600	-	1mA/2V	35	-55~110
					A	3000	6500			
					B	5500	-			

Transistor Output-Darlington



DC input with Transistor output

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Input	CTR				BV_{CEO} Min. (V)	T_{OPR} (°C)
					Rank	Min.(%)	Max.(%)	@ I_F/V_{CE}		
4N29/4N3X		DIP-6	5000	DC	4N29	100	-	10mA/10V	55	-55~100
					4N30	100	-			
					4N31	50	-			
					4N32	500	-			
					4N33	500	-			
CTH245		Half Pitch MFP-16L (SSOP-16)	3750	DC	CTH245	2000	7500	1mA/2V	40	-55~110



Schmitt Trigger

Transistor Output-Schmitt Trigger



Part Number	Circuit	Package	V_{ISO} (rms) (V)	Data Rate	Hysteresis Ratio	Supply Voltage (V)	$I_{F(ON)}$			T_{OPR} (°C)
							Rank	Max.(mA)	@ V_{CC}/R_L	
H11LX		DIP-6	5000	1 MHz	0.5~0.9	3~15	H11L1	1.6	5V/ 270 Ω	-55~100
							H11L2	10		
							H11L3	5		

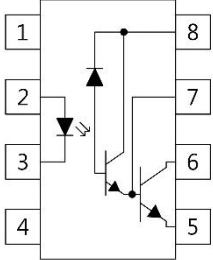


High Speed

High Speed-Analog



0.1 Mbit/s

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Data Rate (Mbit/s)	CTR				CMR (V/μs)	T _{PHL} /T _{PLH} Max. (μs)	T _{OPR} (°C)
					Min.(%)	Typ.(%)	Max.(%)	@I _F /V _O			
6N138		DIP-8	5000	0.1	300	2000	-	1.6mA/0.5V	1000	10/35	-55~100
6N139					500	2000	-			1/7	
CTW138		Widebody-8L (WDIP-8)	5000	0.1	300	2000	-	1.6mA/0.5V	1000	10/35	-55~100
CTW139					500	2000	-			1/7	

High Speed-Analog



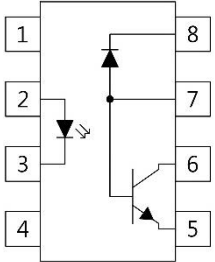
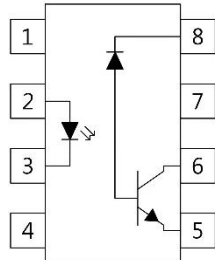
1 Mbit/s

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Data Rate (Mbit/s)	CTR				CMR (V/μs)	T _{PHL} /T _{PLH} Max. (μs)	T _{OPR} (°C)
					Min.(%)	Typ.(%)	Max.(%)	@I _F /V _O			
CTM452		MFP-5L	3750	1	20	-	50	16mA/0.5V	5000	0.8/0.8	-55~125
CTM453					20	-	50		15000		
CTS452		SDIP-6	5000	1	20	-	50	16mA/0.4V	5000	0.8/0.8	-55~100
CTS453					20	-	50		15000		

High Speed-Analog



1 Mbit/s

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Data Rate (Mbit/s)	CTR				CMR (V/μs)	T _{PHL} /T _{PLH} Max. (μs)	T _{OPR} (°C)
					Min.(%)	Typ.(%)	Max.(%)	@I _F /V _O			
6N135		DIP-8	5000	1	7	-	50	16mA/0.4V	1000	1.5/1.5	-55~100
6N136					19	-	50		1000		
CT4502					19	-	50		1000	0.8/0.8	
CT4503					19	-	50		15000		
CT4504		DIP-8	5000	1	25	-	60	16mA/0.4V	15000	0.3/0.5	-55~100

High Speed-Analog



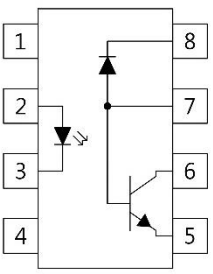
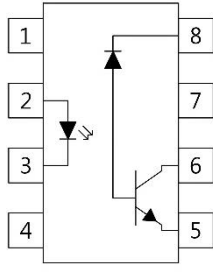
1 Mbit/s

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Data Rate (Mbit/s)	CTR				CMR (V/μs)	T _{PHL} /T _{PLH} Max. (μs)	T _{OPR} (°C)
					Min.(%)	Typ.(%)	Max.(%)	@I _F /V _O			
CTW135		Widebody-8L (WDIP-8)	5000	1	7	-	50	16mA/0.4V	1000	1.5/1.5	-55~100
CTW136					19	-	50		1000	0.8/0.8	
CTW4502					7	-	50		15000	1.5/1.5	
CTW4503					19	-	50		15000	0.8/0.8	

High Speed-Analog



1 Mbit/s

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Data Rate (Mbit/s)	CTR				CMR (V/μs)	T _{PHL} /T _{PLH} Max. (μs)	T _{OPR} (°C)	
					Min.(%)	Typ.(%)	Max.(%)	@I _F /V _O				
CT0500		SOP-8	3750	1	7	-	50	16mA/0.4V	1000	1.5/1.5	-55~100	
CT0501					19	-	50		1000			
CT0452						19	-		50	1000		0.8/0.8
CT0453						19	-		50	1000		

High Speed-Analog



1 Mbit/s

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Data Rate (Mbit/s)	CTR				CMR (V/μs)	T _{PHL} /T _{PLH} Max. (μs)	T _{OPR} (°C)
					Min.(%)	Typ.(%)	Max.(%)	@I _F /V _O			
CT0530		SOP-8	3750	1	7	32	-	16mA/0.4V	1000	0.8/0.8	-55~100
CT0531					19	32	-		15000		

High Speed-Digital



10 Mbit/s

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Data Rate (Mbit/s)	V_{CC} (V)	I_{FT} Max. (mA)	CMR (V/ μ s)	T_{PHL}/T_{PLH} Max. (μ s)	T_{OPR} ($^{\circ}$ C)
CTM600		MFP-5L	3750	10	7	5	-	75/75	-55~100
CTM601							5000		
CTM611							20000		
CTS600		SDIP-6	5000	10	7	5	-	75/75	-55~100
CTS601							5000		
CTS611							20000		

High Speed-Digital



10 Mbit/s

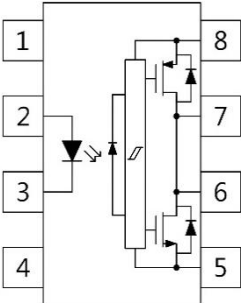
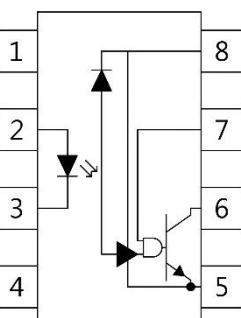
Part Number	Circuit	Package	V_{ISO} (rms) (V)	Data Rate (Mbit/s)	V_{CC} (V)	I_{FT} Max. (mA)	CMR (V/ μ s)	T_{PHL}/T_{PLH} Max. (μ s)	T_{OPR} ($^{\circ}$ C)
CT2630		DIP-8	5000	10	7	5	-	75/75	-55~110
CT2631							5000		
6N137		DIP-8	5000	10	7	5	1000	75/75	-55~100
CT2601							5000		
CT0600		SOP-8	3750	10	7	5	-	75/75	-40~85
CT0601							5000		
CT0611							15000		



Photo Triac

Photo Triac-Zero Cross



250V

Part Number	Circuit	Package	V_{ISO} (rms) (V)	I_{FT} Max. (mA)	V_{DRM} (V)	Static DV/DT (V/ μ s)		T_{OPR} (°C)
						Min.	Typ.	
CT3031-4L		DIP-4	5000	15	250	1000	-	-55~100
CT3032-4L				10				
CT3033-4L				5				
CT3031-5L		DIP-5	5000	15	250	1000	-	-55~100
CT3032-5L				10				
CT3033-5L				5				
CT3031		DIP-6	5000	15	250	1000	-	-55~100
CT3032				10				
CT3033				5				
CTM3031		MFP-4L	3750	15	250	1000	-	-55~100
CTM3032				10				
CTM3033				5				

Photo Triac-Zero Cross



400V

Part Number	Circuit	Package	V_{ISO} (rms) (V)	I_{FT} Max. (mA)	V_{DRM} (V)	Static DV/DT (V/ μ s)		T_{OPR} (°C)
						Min.	Typ.	
CT3041-4L		DIP-4	5000	15	400	1000	-	-55~100
CT3042-4L				10				
CT3043-4L				5				
CT3041-5L		DIP-5	5000	15	400	1000	-	-55~100
CT3042-5L				10				
CT3043-5L				5				
CT3041		DIP-6	5000	15	400	1000	-	-55~100
CT3042				10				
CT3043				5				
CTM3041		MFP-4L	3750	15	400	1000	-	-55~100
CTM3042				10				
CTM3043				5				

Photo Triac-Zero Cross



600V

Part Number	Circuit	Package	V_{ISO} (rms) (V)	I_{FT} Max. (mA)	V_{DRM} (V)	Static DV/DT (V/ μ s)		T_{OPR} (°C)
						Min.	Typ.	
CT3061-4L		DIP-4	5000	15	600	1000	-	-55~100
CT3062-4L				10				
CT3063-4L				5				
CT3061-5L		DIP-5	5000	15	600	1000	-	-55~100
CT3062-5L				10				
CT3063-5L				5				
CT3061		DIP-6	5000	15	600	1000	-	-55~100
CT3062				10				
CT3063				5				
CTM3061		MFP-4L	3750	15	600	1000	-	-55~100
CTM3062				10				
CTM3063				5				

Photo Triac-Zero Cross



800V

Part Number	Circuit	Package	V _{ISO} (rms) (V)	I _{FT} Max. (mA)	V _{DRM} (V)	Static DV/DT (V/ μ s)		T _{OPR} (°C)
						Min.	Typ.	
CT3081-4L		DIP-4	5000	15	800	600	-	-55~100
CT3082-4L				10				
CT3083-4L				5				
CT3081-5L		DIP-5	5000	15	800	1000	-	-55~100
CT3082-5L				10				
CT3083-5L				5				
CT3081		DIP-6	5000	15	800	600	-	-55~100
CT3082				10				
CT3083				5				
CTM3081		MFP-4L	3750	15	800	600	-	-55~100
CTM3082				10				
CTM3083				5				

Photo Triac-Random Phase



Back

250V

Part Number	Circuit	Package	V_{ISO} (rms) (V)	I_{FT} Max. (mA)	V_{DRM} (V)	Static DV/DT (V/ μ s)		T_{OPR} (°C)
						Min.	Typ.	
CT3010-4L		DIP-4	5000	15	250	-	100	-55~100
CT3011-4L				10				
CT3012-4L				5				
CT3010-5L		DIP-5	5000	15	250	-	100	-55~100
CT3011-5L				10				
CT3012-5L				5				
CT3010		DIP-6	5000	15	250	-	100	-55~100
CT3011				10				
CT3012				5				
CTM3010		MFP-4L	3750	15	250	-	100	-55~100
CTM3011				10				
CTM3012				5				

Photo Triac-Random Phase



400V

Part Number	Circuit	Package	V _{ISO} (rms) (V)	I _{FT} Max. (mA)	V _{DRM} (V)	Static DV/DT (V/μs)		T _{OPR} (°C)
						Min.	Typ.	
CT3020-4L		DIP-4	5000		400	-	100	-55~100
CT3021-4L				15				
CT3022-4L				10				
CT3023-4L				5				
CT3020-5L		DIP-5	5000	30	400	-	100	-55~100
CT3021-5L				15				
CT3022-5L				10				
CT3023-5L				5				
CT3020		DIP-6	5000	30	400	-	100	-55~100
CT3021				15				
CT3022				10				
CT3023				5				
CTM3020		MFP-4L	3750		400	-	100	-55~100
CTM3021				15				
CTM3022				10				
CTM3023				5				

Photo Triac-Random Phase



600V

Part Number	Circuit	Package	V_{ISO} (rms) (V)	I_{FT} Max. (mA)	V_{DRM} (V)	Static DV/DT (V/ μ s)		T_{OPR} (°C)
						Min.	Typ.	
CT3051-4L		DIP-4	5000	15	600	1000	-	-55~100
CT3052-4L				10				
CT3053-4L				5				
CT3051-5L		DIP-5	5000	15	600	1000	-	-55~100
CT3052-5L				10				
CT3053-5L				5				
CT3051		DIP-6	5000	15	600	1000	-	-55~100
CT3052				10				
CT3053				5				
CTM3051		MFP-4L	5000	15	600	1000	-	-55~100
CTM3052				10				
CTM3053				5				



Power Triac

Power Triac



Zero Cross

Part Number	Circuit	Package	V_{ISO} (rms) (V)	I_{FT} Max. (mA)	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{TSM} (A)	T_{OPR} (°C)
CTT0213		DIP-7	5000	10	600	0.3	3	-40~85
CTT1213						0.6	6	
CTT2213						0.9	9	
CTT3213						1.2	12	

Power Triac



Random Phase

Part Number	Circuit	Package	V_{ISO} (rms) (V)	I_{FT} Max. (mA)	V_{DRM} (V)	$I_{T(RMS)}$ (A)	I_{TSM} (A)	T_{OPR} (°C)
CTT0213		DIP-7	5000	10	600	0.3	3	-40~85
CTT1213						0.6	6	
CTT2213						0.9	9	
CTT3213						1.2	12	



Photo MOS Relays (SSR)

Solid State Relay



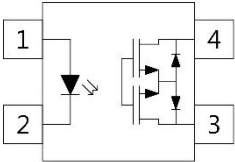
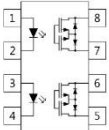
100V

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Load Voltage (V)	I_{ON} (mA)	P_O (Mw)	R_{ON} Max. (Ω)	T_{ON}/T_{OFF} Max. (ms)	T_{OPR} ($^{\circ}C$)
CTR215-4L		DIP-4	3750	100	700	500	2	1.3/0.5	- 40~110
CTR215-M4		MFP-4L	3750	100	500	375	1.5	3/2	-40~85
CTR215-6L		DIP-6	5000	100	700	490	2	0.4/0.4	- 40~110
CTR215-8L		DIP-8	5000	100	700	490	2	0.4/0.4	- 40~110

Solid State Relay



400V

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Load Voltage (V)	I _{on} (mA)	P _D (mW)	R _{ON} Max. (Ω)	T _{ON} /T _{OFF} Max. (ms)	T _{OPR} (°C)
CTR214-4L		DIP-4	5000	400	100	500	50	1/1	-40~85
CTR214B-4L		DIP-4	5000	400	160	384	18	1/1	
CTR214-M4		MFP-4L	3750	400	100	500	50	1/1	
CTR214B-M4				400	160	384	18	1/1	
CTR214-8L		DIP-8	5000	400	100	500	50	1/1	
CTR214B-8L		DIP-8	5000	400	160	384	20	1/1	

Solid State Relay



600V

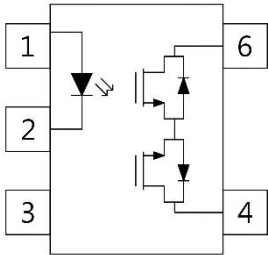
Part Number	Circuit	Package	V_{ISO} (rms) (V)	Load Voltage (V)	I_{ON} (mA)	P_O (Mw)	R_{ON} Max. (Ω)	T_{ON}/T_{OFF} Max. (ms)	T_{OPR} ($^{\circ}C$)
CTR216-4L		DIP-4	5000	600	80	320	50	2/1	-40~85
CTR216-M4		MFP-4L	2500	600	50	25	50	0.3/0.2	-40~85
CTR216-6L		DIP-6	5000	600	80	320	50	0.4/0.4	-40~85
CTR216-8L		DIP-8	5000	600	50	125	50	0.4/0.4	- 40~110

Solid State Relay



1500V

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Load Voltage (V)	I_{on} (mA)	P_D (mW)	R_{ON} Max. (Ω)	T_{ON}/T_{OFF} Max. (ms)	T_{OPR} ($^{\circ}C$)
CTR258-5L		DIP-6	5000	1500	20	240	500	1/0.5	-40~85

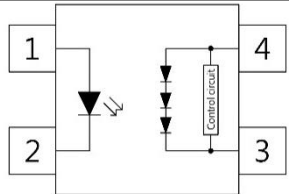




Photovoltaic Generator (PVG) MOSFET Driver

PVG Output



Part Number	Circuit	Package	V_{ISO} (rms) (V)	V_{OC} Min. (V)	I_{SC} Min. (μA)	T_{ON} Typ. (μs)	T_{OFF} Typ. (μs)	T_{OPR} ($^{\circ}C$)
CT1271	 The circuit diagram shows a four-pin package. Pin 1 is connected to the anode of an LED. Pin 2 is connected to the cathode of the LED. Pin 3 is connected to the negative terminal of a control circuit. Pin 4 is connected to the positive terminal of the control circuit. The control circuit consists of two diodes in series, with the LED connected in parallel with the first diode.	MFP-4L	3750	7.8	6	50	32	-40~100

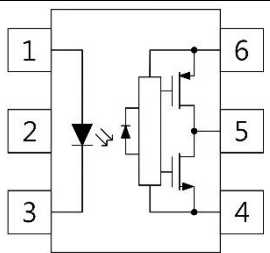


IGBT Gate Driver

IGBT Gate Driver



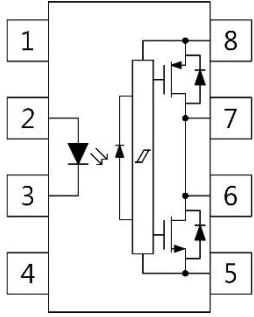
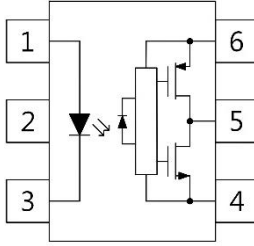
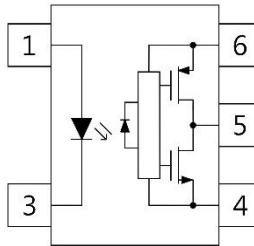
0.6A

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Output Current (A)	Supply Current Max. (mA)	P_{WD} (ns)	T_{PHL}/T_{PLH} Max. (ns)	T_{OPR} (°C)
CTS701		SDIP-6	5000	0.6	3	Typ.30	300/300	-40~100

IGBT Gate Driver



1.0A

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Output Current (A)	Supply Current Max. (mA)	P_{WD} (ns)	T_{PHL}/T_{PLH} Max. (ns)	T_{OPR} (°C)
CT3150		DIP-8	5000	1.0	3	300	500/500	-40~100
CTS314		SDIP-6	5000	1.0	3	Typ.30	300/300	-40~100
CTL5701		LSOP-5	5000	1.0	5	200	300/300	- 40~110

IGBT Gate Driver



2.5A

Part Number	Circuit	Package	V_{ISO} (rms) (V)	Output Current (A)	Supply Current Max. (mA)	P_{WD} (ns)	T_{PHL}/T_{PLH} Max. (ns)	T_{OPR} (°C)
CT350		DIP-8	5000	2.5	5	300	500/500	-40~100
CT3120		DIP-8	5000	2.5	5	300	500/500	- 40~110
CTW3120		Widebody-8L (WDIP-8)	5000	2.5	3.7	100	300/300	-40~100
CTS700		SDIP-6	5000	2.5	5	300	500/500	- 40~110
CTL5702		Long Creepage-5L (LSOP-5)	5000	2.5	5	200	300/300	- 40~110

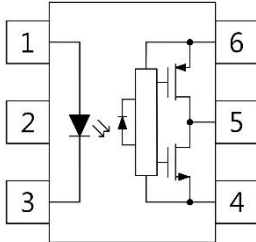


Intelligent Power Module (IPM)

IPM Interface



1.0A

Part Number	Circuit	Package	V _{ISO} (rms) (V)	Output Current (A)	Supply Current Max. (mA)	P _{WD} (ns)	T _{PHL} /T _{PLH} Max. (ns)	T _{OPR} (°C)
CTS480	 The circuit diagram shows a 6-pin package. Pin 1 is connected to a common ground. Pin 2 is connected to the emitter of an NPN transistor. Pin 3 is connected to the base of the transistor. Pin 4 is connected to the collector of the transistor. Pin 5 is connected to a common ground. Pin 6 is connected to the collector of the transistor. The transistor is an NPN type, with the emitter connected to pin 2, the base to pin 3, and the collector to pin 4 and pin 6.	SDIP-6	5000	50mA	3	250	250/250	-40~100



Linearity Coupler

Linearity



Part Number	Circuit	Package	V_{ISO} (rms) (V)	BV_{RPD} Min. (V)	Transfer Gain	CTR (I_{PD}/I_F) (%)	DC NonLinearity. (%)	T_{OPR} (°C)
CTW200		Widebody-8L (WDIP-8)	8000	30	0.85~1.15	0.25~0.75	0.25	-55~100
CTW201					0.95~1.05	0.36~0.72	0.05	



Package Type

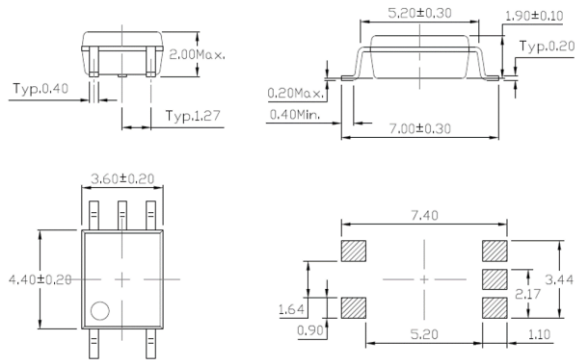
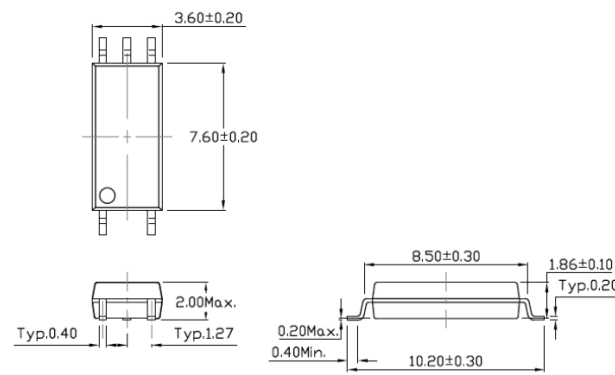
4Pin Package Type



DIP-4	MFP-4L
Half Pitch MFP-4L	LCP-4L-W

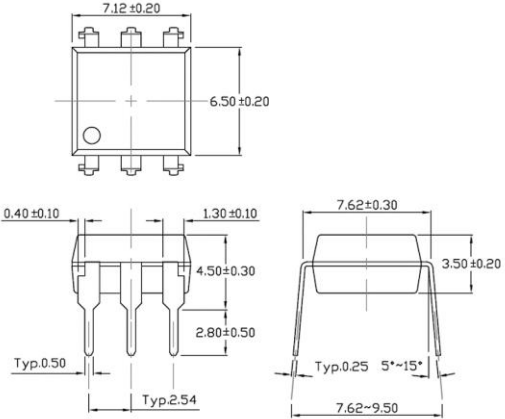
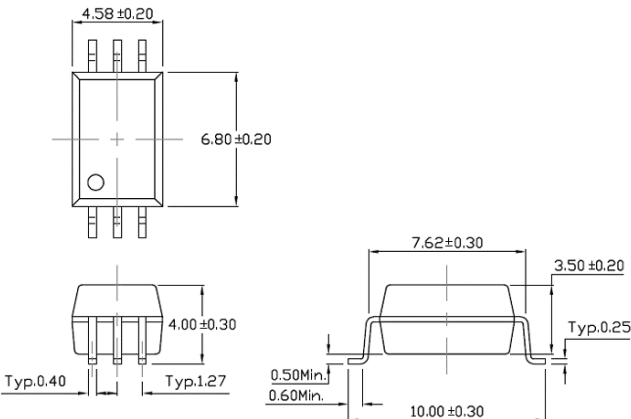
5Pin Package Type



MFP-5L	LCP-5L-W
 Technical drawings of the MFP-5L package showing top, side, and bottom views with dimensions in millimeters. - Top view: 3.60±0.20, 4.40±0.20, 7.40, 5.20, 1.10, 3.44, 2.17, 0.90, 1.64. - Side view: 5.20±0.30, 1.90±0.10, 7.00±0.30, 0.20Max., 0.40Min., Typ.0.20. - Bottom view: 2.00Max., Typ.0.40, Typ.1.27.	 Technical drawings of the LCP-5L-W package showing top, side, and bottom views with dimensions in millimeters. - Top view: 3.60±0.20, 7.60±0.20. - Side view: 8.50±0.30, 1.86±0.10, 10.20±0.30, 0.20Max., 0.40Min., Typ.0.20. - Bottom view: 2.00Max., Typ.0.40, Typ.1.27.

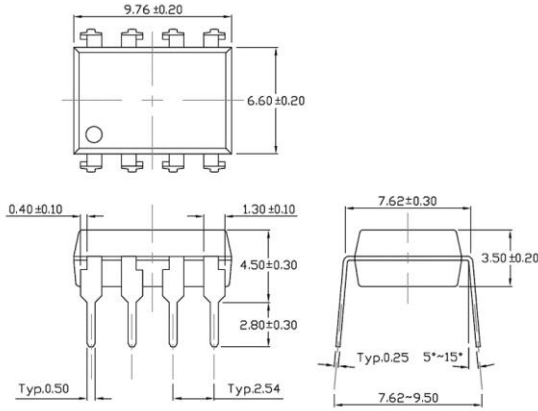
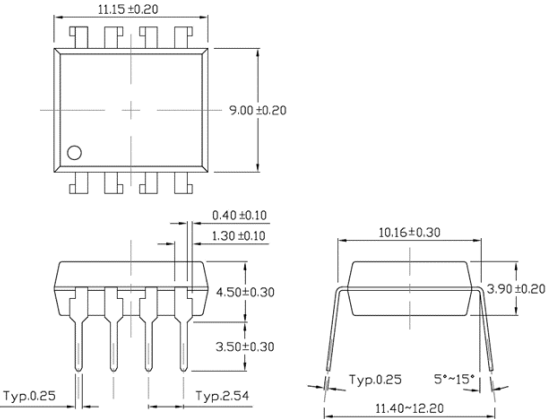
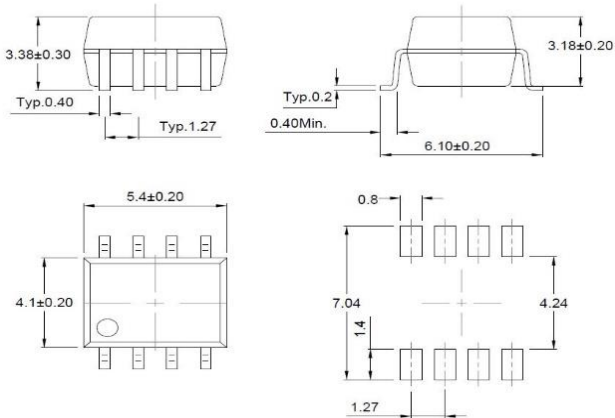
6Pin Package Type



DIP-6	SDIP-6
 Technical drawing of a DIP-6 package showing top, side, and end views with dimensions: - Top view: 7.12 ± 0.20 (width), 6.50 ± 0.20 (height) - Side view: 0.40 ± 0.10 (lead width), 1.30 ± 0.10 (lead height), 4.50 ± 0.30 (body height), 2.80 ± 0.50 (lead length), $\text{Typ. } 0.50$ (lead thickness), $\text{Typ. } 2.54$ (lead pitch) - End view: 7.62 ± 0.30 (width), 3.50 ± 0.20 (height), $\text{Typ. } 0.25$ (lead thickness), $5^\circ \sim 15^\circ$ (lead angle), $7.62 \sim 9.50$ (total length)	 Technical drawing of an SDIP-6 package showing top, side, and end views with dimensions: - Top view: 4.58 ± 0.20 (width), 6.80 ± 0.20 (height) - Side view: 4.00 ± 0.30 (body height), $\text{Typ. } 0.40$ (lead width), $\text{Typ. } 1.27$ (lead pitch) - End view: 7.62 ± 0.30 (width), 3.50 ± 0.20 (height), $\text{Typ. } 0.25$ (lead thickness), 10.00 ± 0.30 (total length), 0.50 Min. (lead thickness), 0.60 Min. (lead thickness)

8Pin Package Type

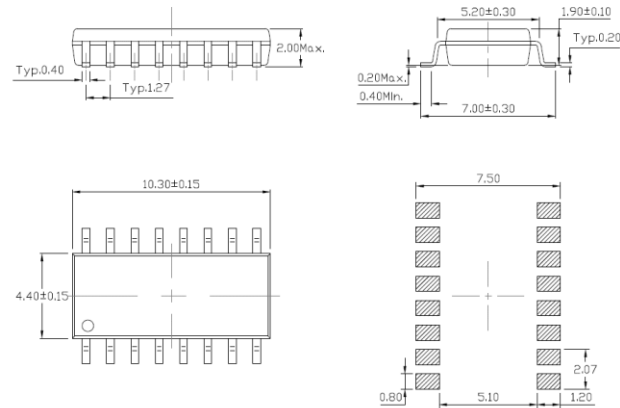


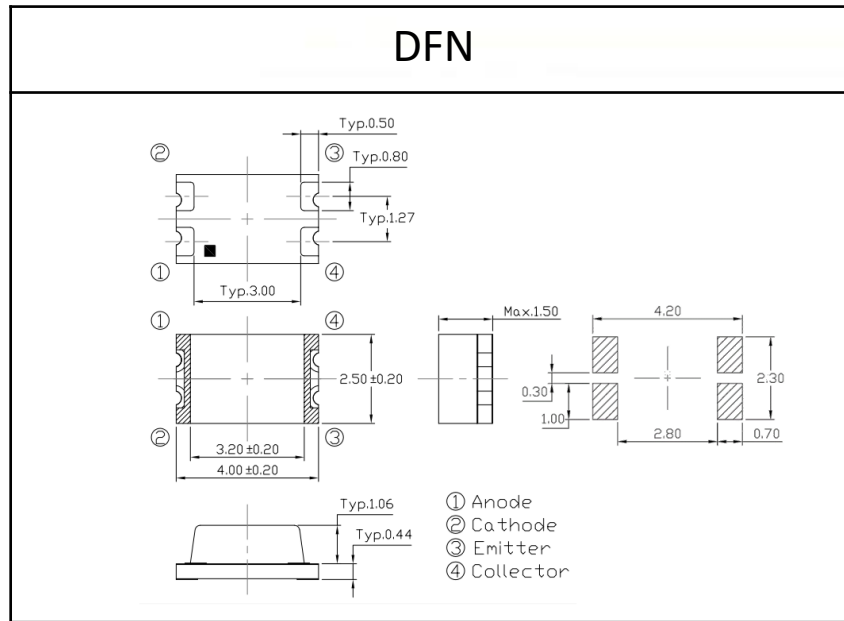
DIP-8	Widebody-8L
 Top view: 9.76 ± 0.20, 6.60 ± 0.20 Side view: 0.40 ± 0.10, 1.30 ± 0.10, 4.50 ± 0.30, 2.80 ± 0.30, Typ. 0.50, Typ. 2.54 End view: 7.62 ± 0.30, 3.50 ± 0.20, Typ. 0.25 5°~15°, 7.62~9.50	 Top view: 11.15 ± 0.20, 9.00 ± 0.20 Side view: 0.40 ± 0.10, 1.30 ± 0.10, 4.50 ± 0.30, 3.50 ± 0.30, Typ. 0.25, Typ. 2.54 End view: 10.16 ± 0.30, 3.90 ± 0.20, Typ. 0.25 5°~15°, 11.40~12.20
SOP-8	
 Top view: 3.38 ± 0.30, Typ. 0.40, Typ. 1.27 Side view: 3.18 ± 0.20, Typ. 0.2, 0.40 Min., 6.10 ± 0.20 Bottom view: 5.4 ± 0.20, 4.1 ± 0.20 Pin pitch: 0.8, 7.04, 1.4, 4.24, 1.27	

16Pin Package Type



Half Pitch MFP-16L





CT Photo Coupler



Back

Package	DIP-4	DIP-6	DIP-8	Widebody-8L	MFP-4L	MFP-5L	Half Pitch MFP-4L	LCP-4L-W	LCP-5L-W	SDIP-6	DFN	Half Pitch MFP-16L	SOP-8
Outline													
Transistor	MP	MP	MP		MP	MP	MP	MP			MP	MP	Samples
High Power Transistor	MP				MP								
Darlington Transistor	MP	MP			MP								
High Power Darlington	MP				MP								
High Speed Analog			MP	MP		MP			Samples	MP			Samples
High Speed Digital			MP	MP		MP			Samples	MP			Samples
Photo Triac	MP	MP	MP		MP								
Photo SSR	MP	Samples	Samples		MP								
IGBT Gate Driver			MP	Samples		Samples				MP			
Schmitt Trigger		MP											
Linearity				Samples									
Photovoltaic -Output		Samples				Samples							



Thank you



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