Meet Future, LITEON your life

Photocoupler, *2017-2018*

LITEON®

OPTOELECTRONICS

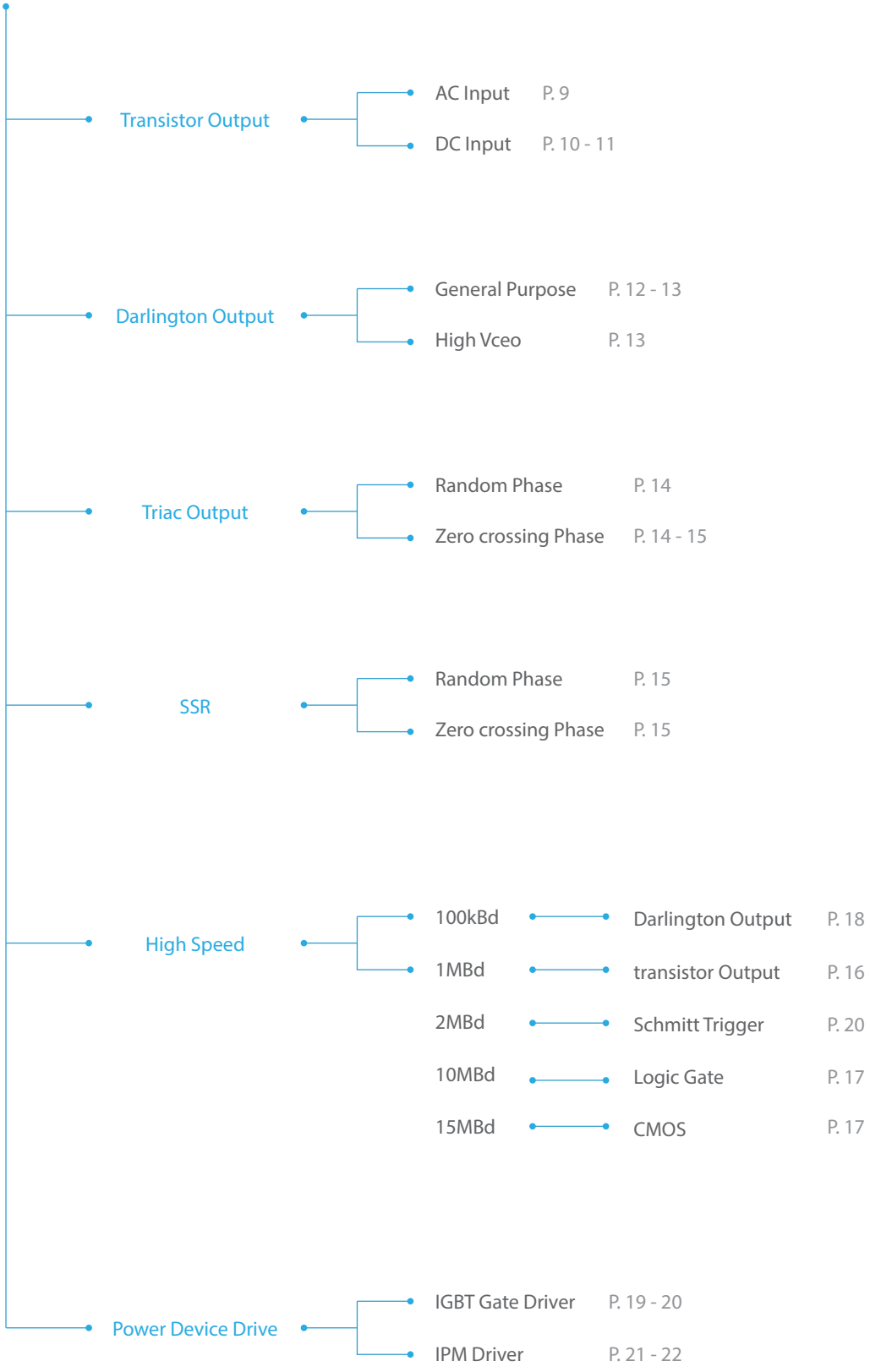
Photocoupler

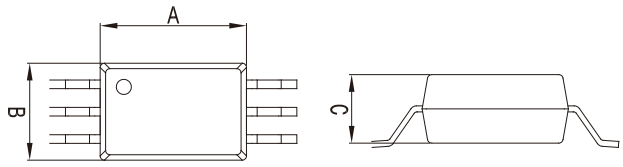
Lite-On offers a broad range of isolation products that provide high performance, while maintaining cost efficiency, benefiting industrial, computing, consumer and communication markets.

Lite-On photocouplers are available in standard single, dual, and quad channel DIP(Dual-In Package), SOP(Small Outline Package), SSOP(Shrink Small Outline Package) & LSOP(Long Small Outline package) with Transistor, Triac, High Speed, Darlington, IGBT drive output and AC input configurations to serve various applications such as switch mode power, battery chargers, fax modems, home appliances, telecommunication and industry controllers. The SOP, SSOP & LSOP photocouplers are only available in tape and reel configurations. All photocouplers employ double transfer mold technology, which features high isolation voltage, with safety approval certificates including CQC, UL, CSA, BSI, VDE, FIMKO, NEMKO, DEMKO and SEMKO.

Liteon integrates environmental-friendly value into every aspect of our design and manufacturing. We offer lead-free photocouplers for DIP and mini flat packages, and RoHS compliance since 2004. To further enhance our step into green value, we have been offering Halogen-free solutions since Feb 2008 in the form of worldwide-leading Halogen-free photocouplers. In May 2015, UL awarded the world's first EN 62368-1 D Mark to Lite-On Technology's photo coupler. The product also acquired Nordic Certification which is recognised by four northern European countries – Norway, Denmark, Finland and Sweden. This achievement marks Taiwan's leading technology in the design and manufacture of electronic parts and products. The acquisition of international accreditation will enhance Lite-On's product differentiation and strengthen its competitiveness in the European markets.

Photocoupler package

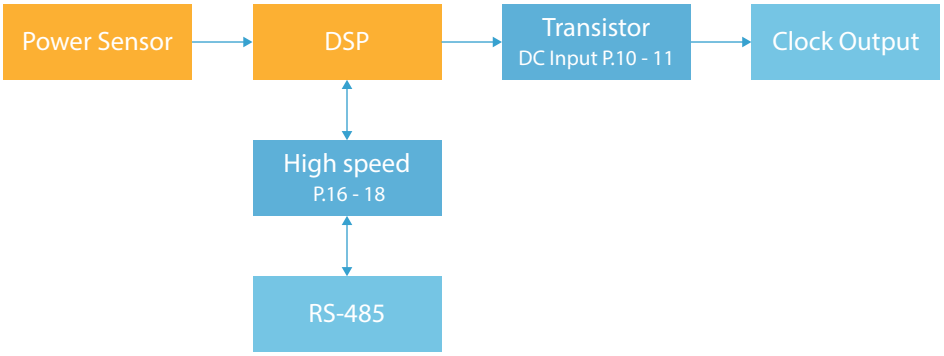




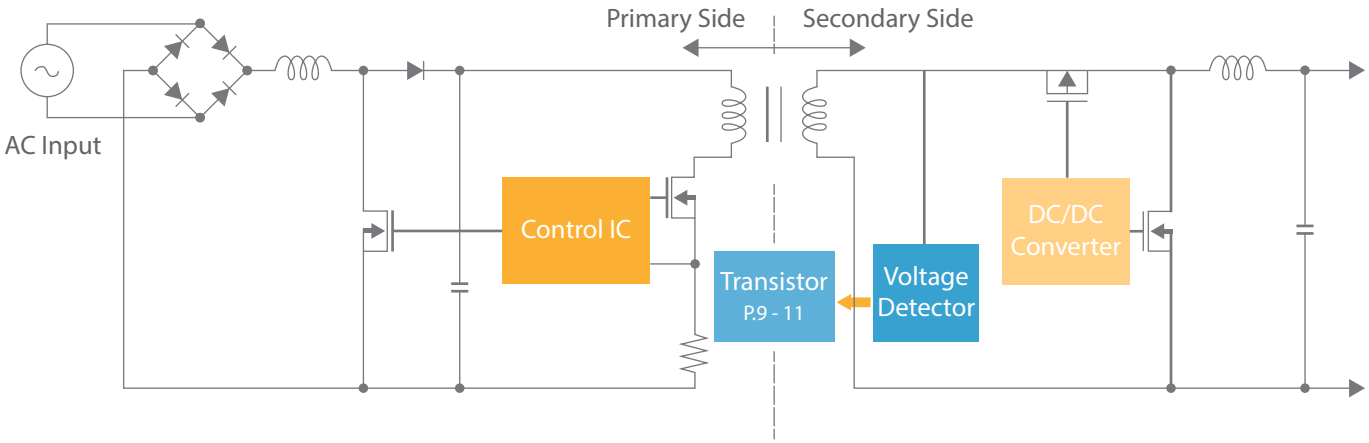
	package	size A x B x C
 DIP4  DIP4-M  DIP4-S  DIP4-S2 option	DIP4	6.5 x 4.6 x 3.5
 DIP6  DIP6-M  DIP6-S	DIP6	6.5 x 7.3 x 3.5
 DIP8  DIP8-M  DIP8-S  DIP8-S2 option	DIP8	6.5 x 9.68 x 3.5
 DIP16  DIP16-M  DIP16-S	DIP16	6.5 x 19.84 x 3.5
 SOP4	SOP4	4.4 x 3.85 x 2.0 4.4 x 3.6 x 2.0 (optional)
 SOP5	SOP5	4.4 x 3.6 x 2.3
 SOP8	SOP8	3.91 x 5.84 x 3.18
 LSOP4  LSOP5	LSOP4 LSOP5	7.5 x 3.8 x 2.0
 LSOP6-P type  LSOP6-W type	LSOP6	6.81 x 4.5 x 3.18
 SSOP4	SSOP4	4.4 x 2.6 x 2.0
 SSOP8	SSOP8	4.4 x 5.2 x 2.0
 SSOP16	SSOP16	4.4 x 10.28 x 2.0

Application Notes

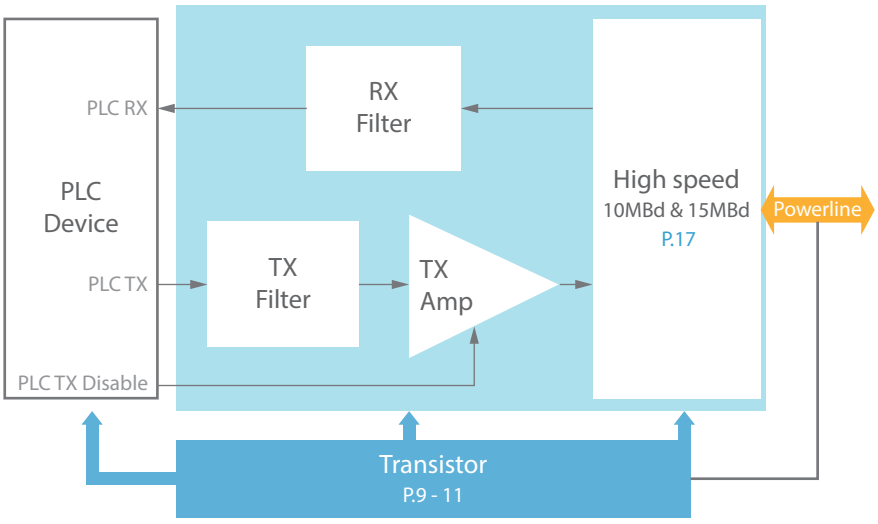
Smart Meter



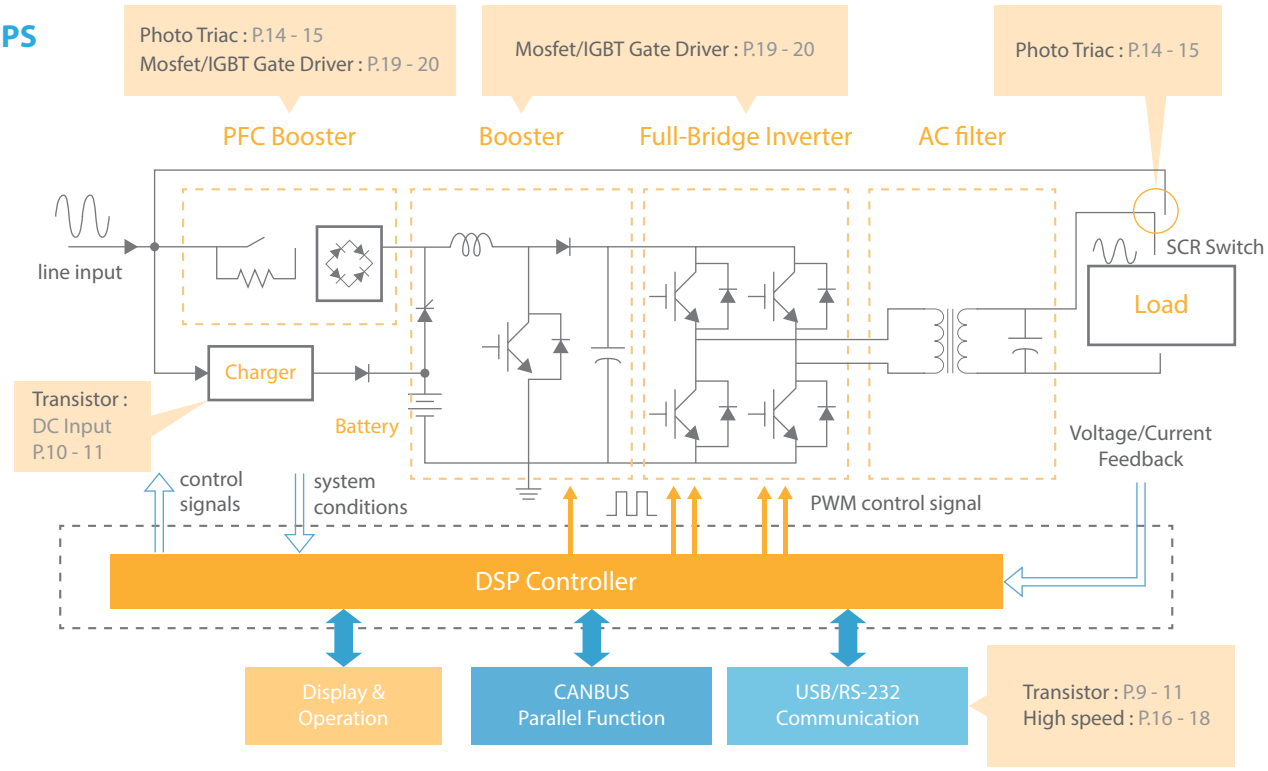
Switch Mode Power Supply



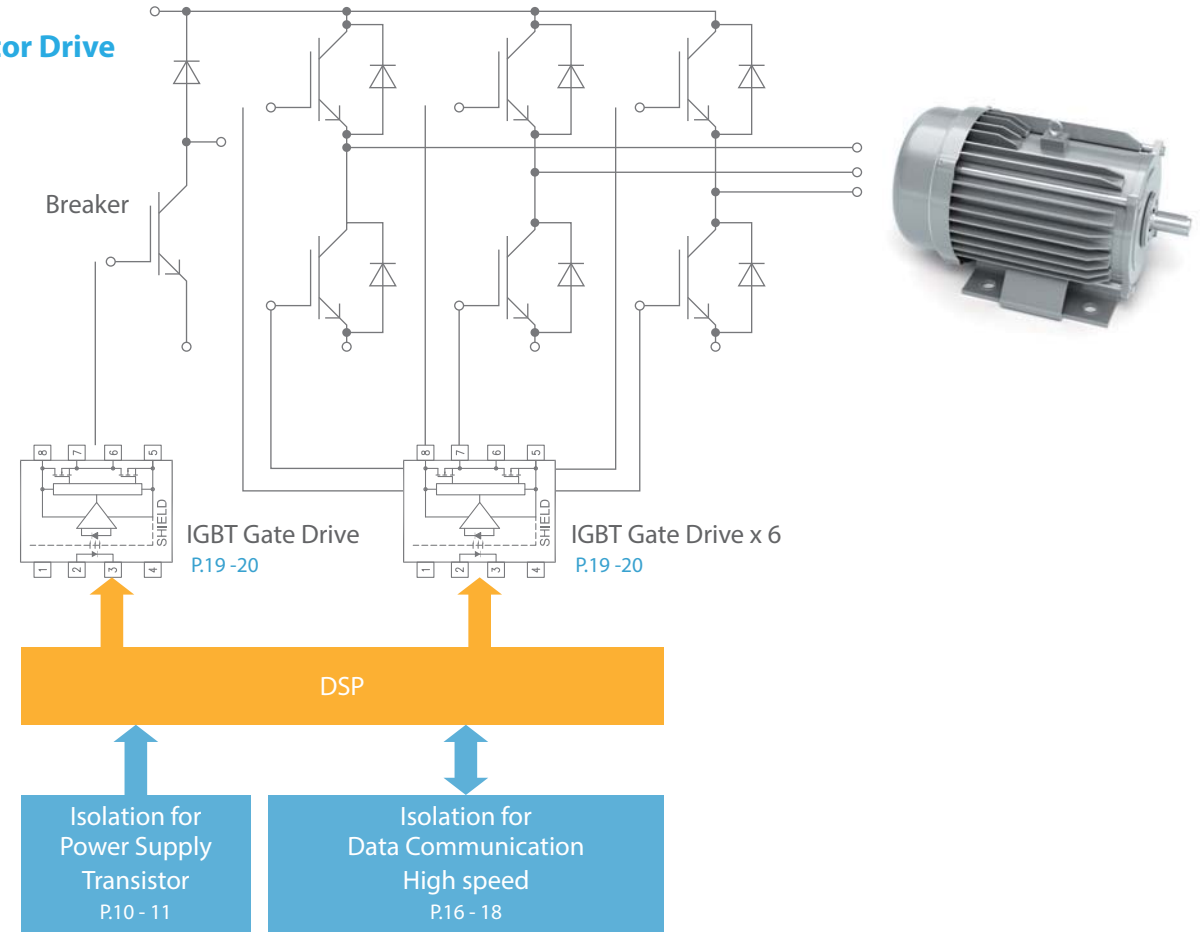
PLC



UPS

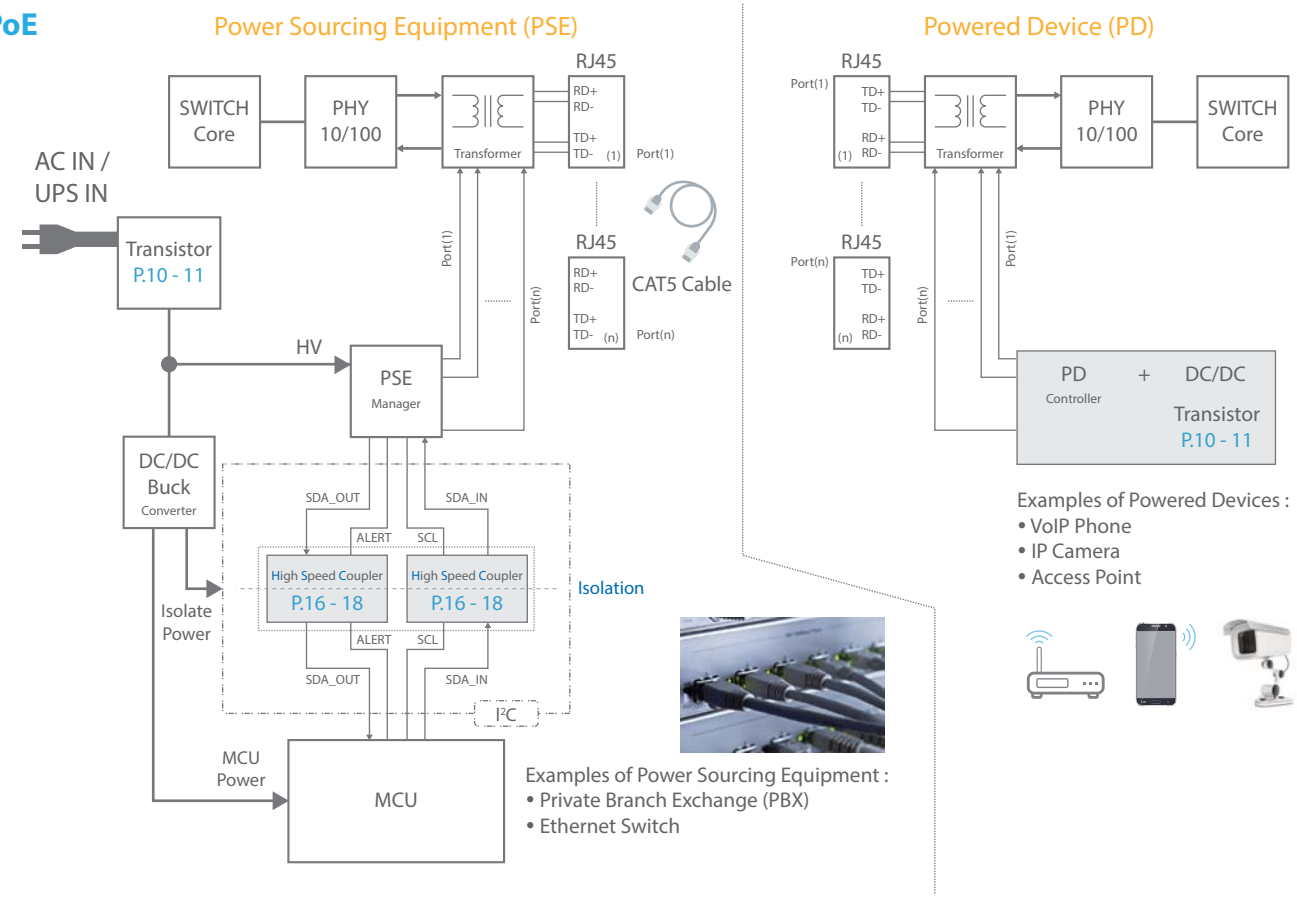


Motor Drive



Application Notes

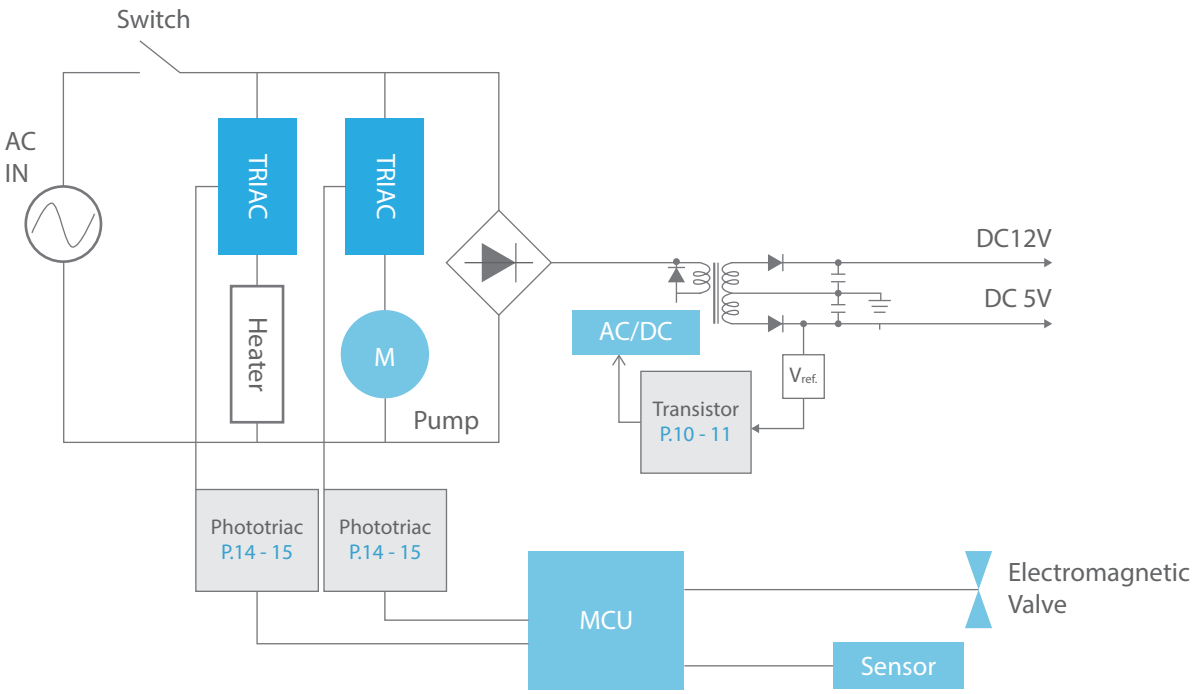
PoE



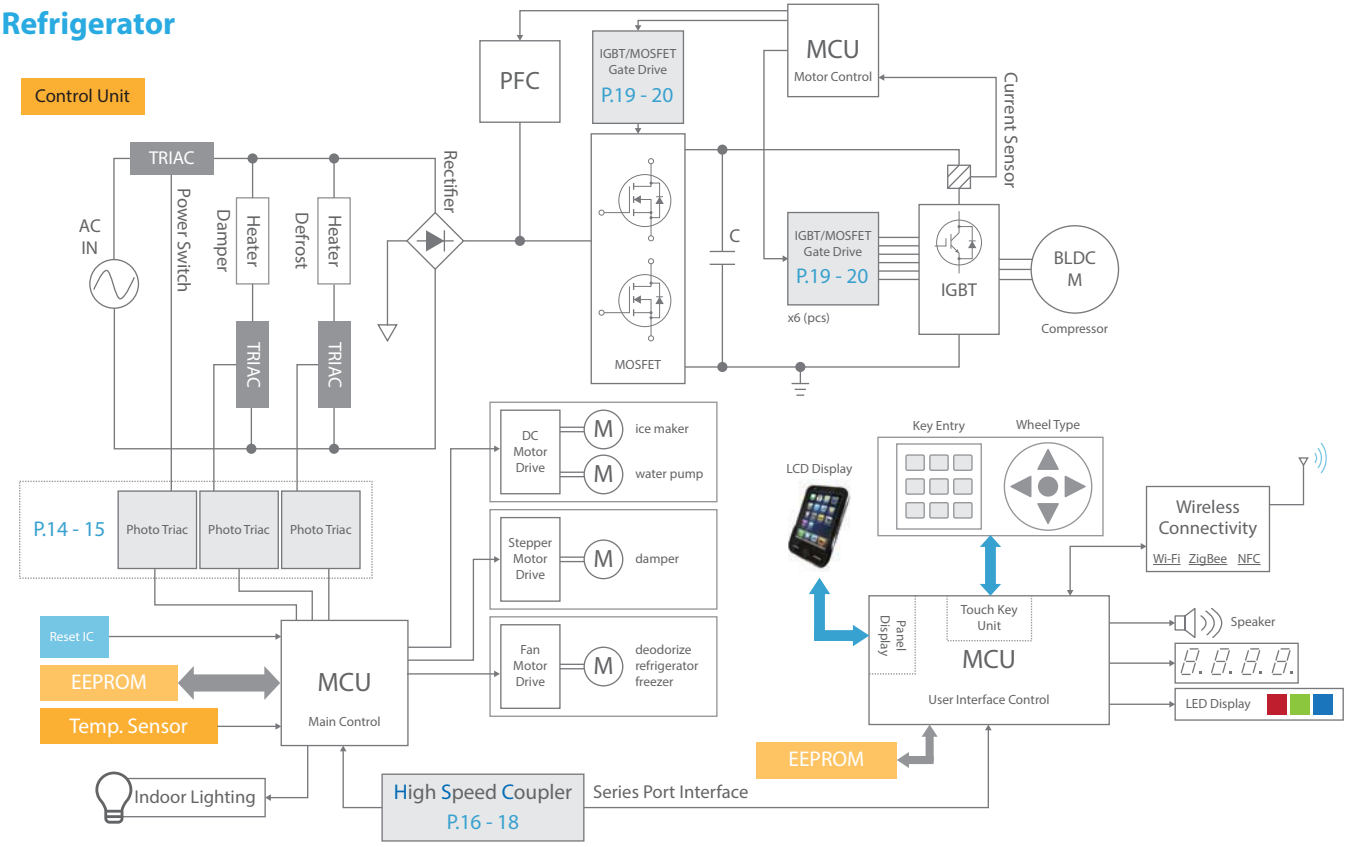
Examples of Power Sourcing Equipment :
- Private Branch Exchange (PBX)
- Ethernet Switch

Examples of Powered Devices :
- VoIP Phone
- IP Camera
- Access Point

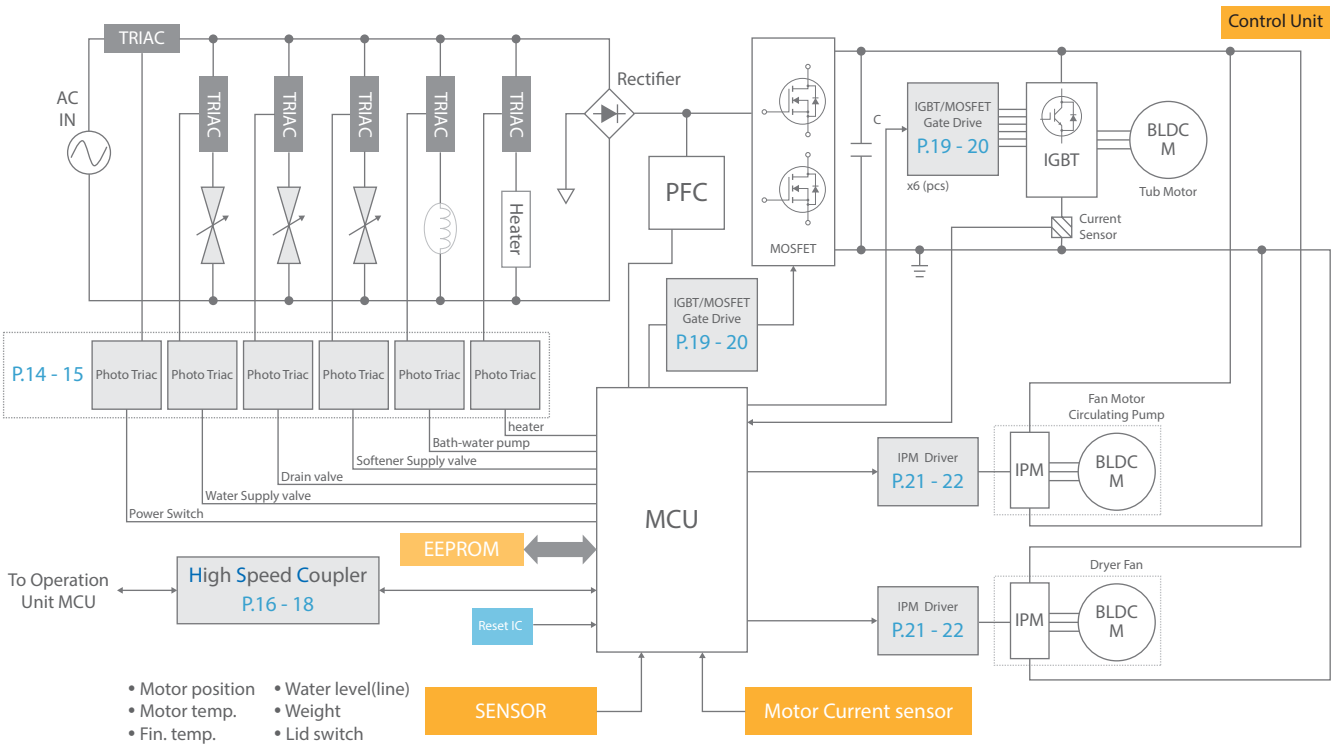
Coffee Machine



Refrigerator



Washing Machine



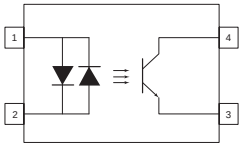
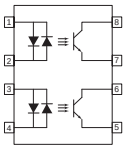
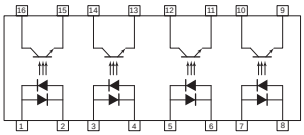
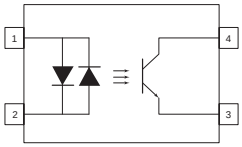
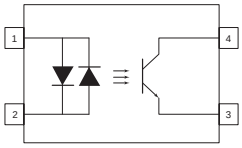
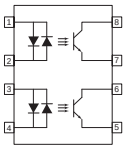
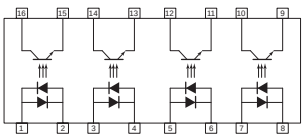
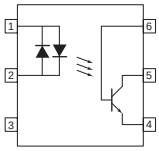
General Purpose Phototransistor Photocoupler

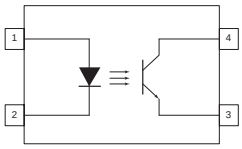
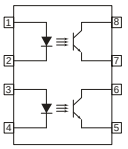
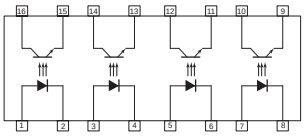
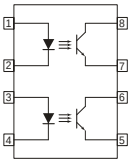
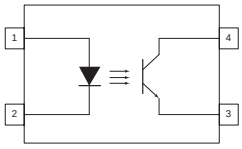
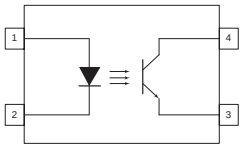
A general purpose Photocoupler is the most common and preferred choice for providing isolated feedback in a regulation loop. They are available in 1-channel, 2-channel and 4-channel, both DC and AC inputs, to suit the requirements of multiple isolation such as interfaces between logic circuits.

Application

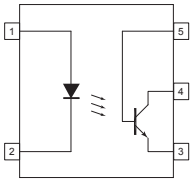
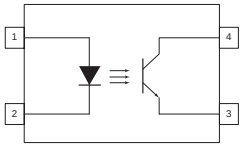
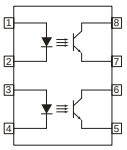
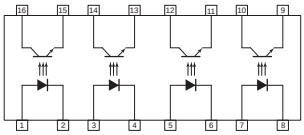
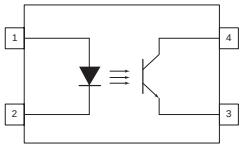
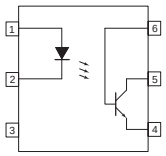
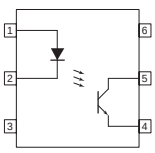
- Ground loop elimination
- Interface between logic circuits
- Level shifting
- Regulation feedback circuits in SMPS



Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-214		AC input, High Vceo	SSOP4	3750	80	20	400	±1
LTV-224		AC input, 2 Channels, High Vceo	SSOP8	3750	80	20	400	±1
LTV-244		AC input, 4 Channels, High Vceo	SSOP16	3750	80	20	400	±1
LTV-354T		AC input	SOP4	3750	35	20	400	±1
LTV-814		AC input	DIP4	5000	35	20	300	±1
LTV-824		AC input, 2 Channels	DIP8	5000	35	20	300	±1
LTV-844		AC input, 4 Channels	DIP16	5000	35	20	300	±1
LTV-733		AC input, With Base Connection	DIP6	5000	35	20	-	±1

Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-217		DC input, High Vceo	SSOP4	3750	80	80	600	5
LTV-227		DC input, 2 Channels, High Vceo	SSOP8	3750	80	80	600	5
LTV-247		DC input, 4 Channels, High Vceo	SSOP16	3750	80	80	600	5
LTV-200		DC input, 2 Channels, High Vceo	SOP8	3750	80	20	320	10
LTV-205				3750	80	40	80	10
LTV-206				3750	80	63	125	10
LTV-207				3750	80	100	200	10
LTV-208				3750	80	160	320	10
LTV-358T		DC input, Very High Vceo	SOP4	3750	120	80	400	5
LTV-356T		DC input, High Vceo	SOP4	3750	80	50	600	5
LTV-357T		DC input	SOP4	3750	35	50	600	5
LTV-1000		DC input, High Vceo, Creepage distance >8mm	LSOP4	5000	70	50	600	5
LTV-1001				5000	70	100	160	5
LTV-1002				5000	70	22 63	125	1 10
LTV-1003				5000	70	34 100	200	1 10
LTV-1004				5000	70	100	200	5
LTV-1005				5000	70	50	150	5
LTV-1006				5000	70	100	300	5
LTV-1007				5000	70	80	160	5
LTV-1008				5000	70	130	260	5
LTV-1009				5000	70	200	400	5
LTV-1010				5000	70	150	300	5
LTV-1014				5000	70	56 160	320	1 10
LTV-1018				5000	70	100	200	1
LTV-1019				5000	70	250	500	5

General Purpose Phototransistor Photocoupler

Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-1100		DC input, High Vceo, Creepage distance >8mm	LSOP5	5000	70	50	600	5
LTV-1101				5000	70	100	160	5
LTV-1102				5000	70	22 63	125	1 10
LTV-1103				5000	70	34 100	200	1 10
LTV-1104				5000	70	100	200	5
LTV-1105				5000	70	50	150	5
LTV-1106				5000	70	100	300	5
LTV-1107				5000	70	80	160	5
LTV-1108				5000	70	130	260	5
LTV-1109				5000	70	200	400	5
LTV-816		DC input, High Vceo	DIP4	5000	80	50	600	5
LTV-817		DC input	DIP4	5000	35	50	600	5
LTV-826		DC input, 2 Channels, High Vceo	DIP8	5000	80	50	600	5
LTV-827		DC input, 2 Channels	DIP8	5000	35	50	600	5
LTV-846		DC input, 4 Channels, High Vceo	DIP16	5000	80	50	600	5
LTV-847		DC input, 4 Channels	DIP16	5000	35	50	600	5
LTV-851		DC input, Very High Vceo	DIP4	5000	350	40	-	5
4N25		DC input, With Base Connection	DIP6	2500	30	20	-	10
4N26				1500	30	20	-	10
4N27				1500	30	10	-	10
4N28				500	30	10	-	10
4N35				3550	30	100	-	10
4N37				1500	30	100	-	10
CNY17-1				5000	70	40	80	10
CNY17-2				5000	70	63	125	10
CNY17-3				5000	70	100	200	10
CNY17-4				5000	70	160	320	10
LTV-702V				5000	70	40	320	10
CNY17F-1		DC input Without Base Connection	DIP6	5000	70	40	80	10
CNY17F-2				5000	70	63	125	10
CNY17F-3				5000	70	100	200	10
CNY17F-4				5000	70	160	320	10
LTV-702F				5000	70	40	320	10

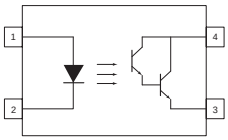
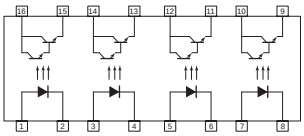
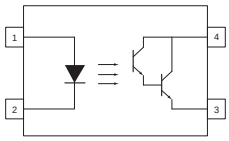
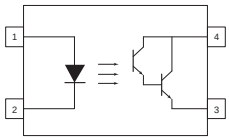
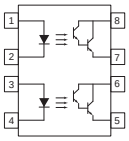
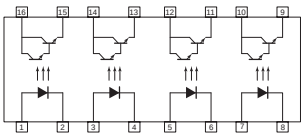
Darlington Transistor Output Photocoupler

These photocouplers provide a very high current transfer ratio from a low input forward current. In addition, they are available in DC and AC inputs by DIP package as well as 2.0mm profile (mini-flat) package to increase designers' options. High input-output isolation voltage and high collector-emitter voltage also add to the benefits for many power distribution applications.

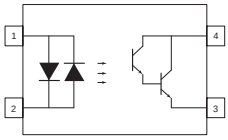
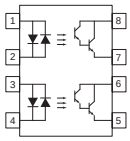
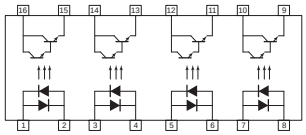
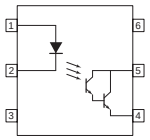
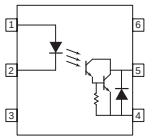
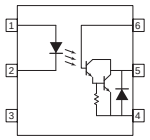
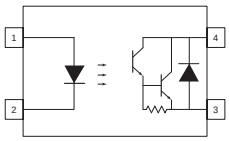
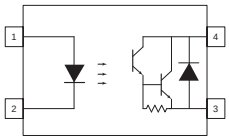
Application

- Hybrid substrates that require high density mounting
- Telephone sets
- Copiers, facsimiles
- Interfaces with various power supply circuits, power distribution boards



Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-215		DC input	SSOP4	3750	40	200	-	1
LTV-245		DC input, 4 Channels	SSOP16	3750	40	200	-	1
LTV-355T		DC input	SOP4	3750	35	600	7500	1
LTV-815		DC input	DIP4	5000	35	600	7500	1
LTV-825		DC input, 2 Channels	DIP8	5000	35	600	7500	1
LTV-845		DC input, 4 Channels	DIP16	5000	35	600	7500	1

Darlington Transistor Output Photocoupler

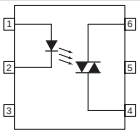
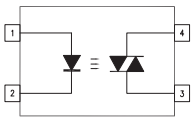
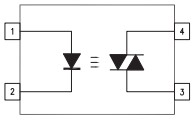
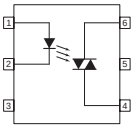
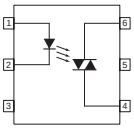
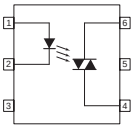
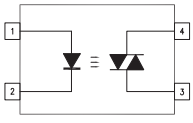
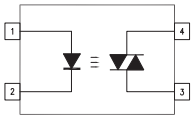
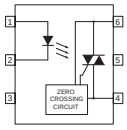
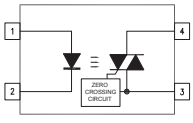
Part No.	Device	Feature	Package	Viso (Vrms)	Vceo(V) min.	CTR min(%)	CTR max(%)	I_F (mA)
LTV-8141		AC input	DIP4	5000	35	600	7500	±1
LTV-8241		AC input, 2 Channels	DIP4	5000	35	600	7500	±1
LTV-8441		AC input, 4 Channels	DIP4	5000	35	600	7500	±1
LTV-715F		DC input Without Base Connection	DIP6	5000	35	600	7500	1
LTV-725F		DC input, Very High Vceo Without Base Connection	DIP6	5000	300	1000	15000	1
LTV-725V		DC input, Very High Vceo With Base Connection	DIP6	5000	300	1000	15000	1
LTV-352T		DC input, High Vceo	SOP4	3750	300	1000	-	1
LTV-852		DC input, High Vceo	DIP4	5000	300	1000	15000	1

Triac Output Photocoupler

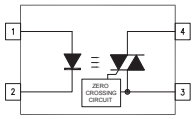
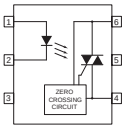
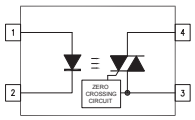
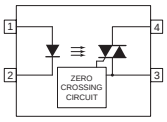
Triac output photocouplers provide a high isolation voltage between input and output Viso of 3,750 Vrms (SOP)/5,000Vrms(DIP6). With two options of zero-crossing and random phase type of triac driver output, it will provide flexibility for circuit designers.
Other benefits include high Off-State Output Terminal Voltage (400V, 600V & 800V) and high critical rate of rise of off-state voltage (min 1000V/μs).

Application

- AC Motor Drives
- AC Motor Starters
- E.M. Contactors
- Lighting Controls
- Solenoid/Valve Controls
- Solid State Relays
- Static Power Switches
- Temperature Controls

Part No.	Device	Feature	Package	Viso(Vrms)	Off-State Output Vdrm(V)	Trigger Current IFT(mA)
MOC3023		400V VDRM, Random Phase	DIP6	5000	400	5
LTV-8023		400V VDRM, Random Phase	DIP4	5000	400	5
LTV-3023		400V VDRM, Random Phase	SOP4	3750	400	5
MOC3052-L		600V VDRM, Random Phase	DIP6	5000	600	5
MOC3052		600V VDRM, Random Phase	DIP6	5000	600	10
MOC3052-H		800V VDRM, Random Phase	DIP6	5000	800	10
LTV-8052		600V VDRM, Random Phase	DIP4	5000	600	10
LTV-3052		600V VDRM, Random Phase	SOP4	3750	600	10
MOC3063		600V VDRM, zero-cross Phase	DIP6	5000	600	5
LTV-8063		600V VDRM, zero-cross Phase	DIP4	5000	600	5

Triac Output Photocoupler

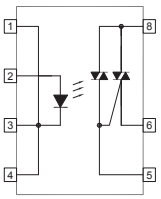
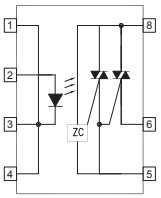
Part No.	Device	Feature	Package	Viso(Vrms)	Off-State Output Vdrm(V)	Trigger Current IFT(mA)
LTV-3063		600V VDRM, zero-cross Phase	SOP4	3750	600	5
MOC3083		800V VDRM, zero-cross Phase	DIP6	5000	800	5
LTV-8083		800V VDRM, zero-cross Phase	DIP4	5000	800	5
LTV-3083		800 VDRM, zero-cross Phase	SOP4	3750	800	5

Solid State Relay Photocoupler

Solid State Relays (SSR) are integration of an AlGaAs Light Emitting Diode, a Phototriac Detector and a main power Triac. These devices are ideally suited for controlling high voltage AC loads with solid state reliability while providing 5 KV isolation (Viso(rms)) between input to output.

Application

- ◆ AC Motor drivers and starters
- ◆ E.M. contactors
- ◆ Solenoid / Valve controls
- ◆ Solid state relays
- ◆ Static Power Switches
- ◆ Temperature controls

Part No.	Device	Feature	Package	Viso(Vrms)	Off-State Output Vdrm(V)	Trigger Current IFT(mA)	On-state RMS current (A)
LTV-3223		600V VDRM, Random Phase Photo-Triac & Main-Triac output	DIP8	5000	600	10	1.2
LTV-3213		600V VDRM, Zero-crossing Photo-Triac & Main-Triac output	DIP8	5000	600	10	1.2

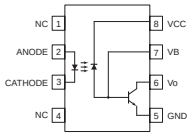
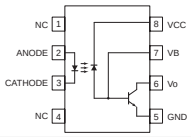
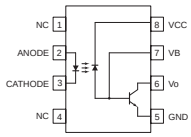
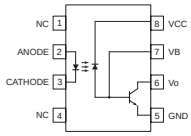
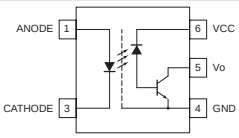
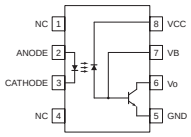
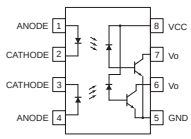
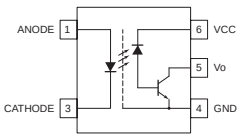
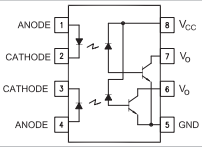
1MBd Transistor Output photocoupler

These photocouplers consist of a high efficiency AlGaAs Light Emitting Diode and a high speed optical detector. This design provides excellent AC and DC isolation between the input and output sides of the photocoupler. The connection for the bias of the photodiode improves upon the speed of a conventional phototransistor coupler by reducing the base-collector capacitances. The internal shield ensures high common mode transient immunity. A guaranteed common mode transient immunity is up to 15KV/μsec.

Application

- High Voltage Isolation
- Isolation in line receivers
- Feedback element in switching mode power supplies
- Power transistor isolation in motor drives
- Interface between Microprocessor system, computer and their peripherals

- Replace pulse transformers
- Replace slower photocoupler isolators

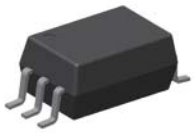
Part No.	Device	Feature	Package	V_{DD}(V) max.	CTR min(%)	CTR max(%)	$I_{F(on)}$ (mA)	tPLH (us)	tPHL (us)	CM_L CM_H Min(V)	Viso min (Vrms)
6N135-L		DC Input, 1MBd	DIP8	15	7	50	16	1.5	1.5	1000	5000
6N136-L		DC Input, 1MBd	DIP8	15	19	50	16	0.8	0.8	1000	5000
6N135-H		DC Input, 1MBd	DIP8	30	7	50	16	1.5	1.5	10000	5000
6N136-H		DC Input, 1MBd	DIP8	30	19	50	16	0.8	0.8	10000	5000
LTV-M501		DC Input, 1MBd	SOP5	30	20	50	16	0.8	0.8	15000	3750
LTV-0501		DC Input, 1MBd	SOP8	30	19	-	16	0.8	0.8	15000	3750
LTV-053L		DC Input, 1MBd, dual channel	SOP8	30	19	-	16	0.8	0.8	15000	3750
LTV-50LW LTV-50LP		DC Input, 1MBd	LSOP6	30	20	-	16	0.8	0.8	15000	5000
LTV-2530		DC Input, 1MBd, dual channel	DIP8	30	7	50	16	1.5	1.5	1000	5000

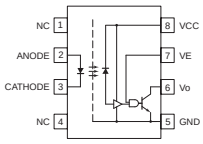
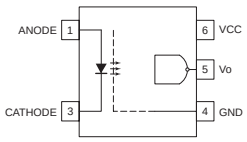
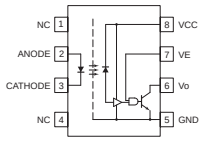
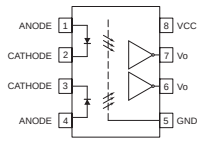
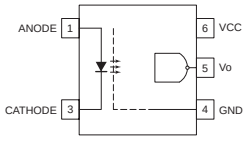
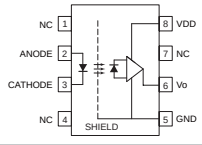
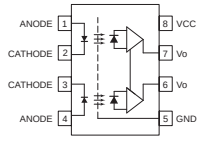
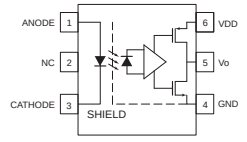
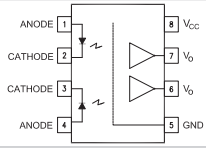
10MBd Logic Gate/ 15MBd CMOS Photocoupler

These high gain series couplers use a AlGaAs LED and an integrated high gain photo detector to provide an extremely high current transfer ratio between input and output. Separate pins for the photodiode and output stage result in TTL compatible saturation voltage and high speed operation. Where desired the Vcc and Vo terminals may be tied together to achieve conventional photo Darlington operation. A base access terminal allows a gain bandwidth adjustment to be made.

Application

- High Voltage Isolation
- Isolation in line receivers
- Ground loop elimination
- Feedback Element in Switching Mode Power Supplies
- High Speed Logic Ground Isolation – TTL / TTL, TTL / CMOS, TTL / LSTTL
- Pulse transformer replacement
- Power transistor isolation in motor drives
- Interface between Microprocessor system, computer and their peripherals



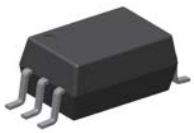
Part No.	Device	Feature	Package	V_{DD}(V)	$I_{F(on)}$ min(mA)	tPLH(ns) Max	tPHL(ns) Max	PWD(ns) MAX	CM_L CM_H Min(V)	Viso min (Vrms)
6N137-L		DC input, 10 MBd, Logic Gate output	DIP8	3.3/5	5	90	75	35	10000	5000
LTV-M601		DC input, 10 MBd, Logic Gate output	SOP5	3.3/5	5	90	75	35	10000	3750
LTV-0601		DC input, 10 MBd, Logic Gate output	SOP8	3.3/5	5	90	75	35	10000	3750
LTV-063L		DC input, 10 MBd, Dual channel, Logic Gate output	SOP8	3.3/5	5	90	75	35	10000	3750
LTV-60LW LTV-60LP		DC input, 10 MBd, Logic Gate output	LSOP6	3.3/5	5	90	75	35	10000	5000
LTV-071L		DC input, 15MBd, Totem Pole output	SOP8	3.3/5	5	60	60	30	10000	3750
LTV-074L		DC input, 15MBd, Dual channel, Totem Pole output	SOP8	3.3/5	5	60	60	30	10000	3750
LTV-70LW LTV-70LP		DC input, 15MBd, Totem Pole output	LSOP6	3.3/5	4	60	60	30	10000	5000
LTV-2630		DC input, 10 MBd, dual channel, Logic Gate output	DIP8	3.3/5	5	90	75	35	10000	5000

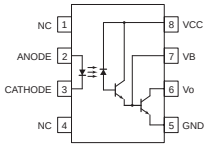
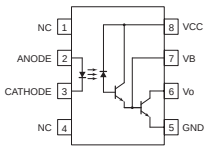
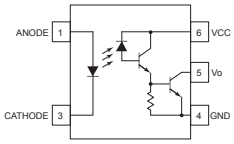
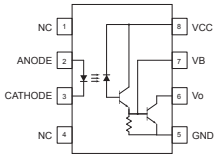
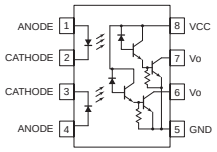
100kBd Darlington Output Photocoupler

These high gain series couplers use a AlGaAs LED and an integrated high gain photo detector to provide an extremely high current transfer ratio between input and output. Separate pins for the photodiode and output stage result in TTL compatible saturation voltage and high speed operation. Where desired the Vcc and Vo terminals may be tied together to achieve conventional photo Darlington operation. A base access terminal allows a gain bandwidth adjustment to be made.

Application

- Digital logic ground isolation
- Low input current line receiver
- Telephone ring detector
- EIA-RS-232C line receiver
- Current loop receiver
- High common mode noise line receiver



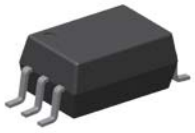
Part No.	Device	Feature	Package	V_{DD}(V)	$I_{F(on)}$ min (mA)	CTR min(%)	I_F (mA)	tPLH (us)	tPHL (us)	CM_L CM_H Min(V)	Viso min (Vrms)
6N138-L		DC input, 100kBd	DIP8	3.3/5	1.6	400	1.6	35	10	1000	5000
6N139-L		DC input, 100kBd	DIP8	3.3/5	0.5	300 500	0.5 1.6	60	25	1000	5000
LTV-M701		DC input, 100kBd	SOP5	3.3/5	1.6	400 500	0.5 1.6	10	2	1000	3750
LTV-0701		DC input, 100kBd	SOP8	3.3/5	0.5	400 500	0.5 1.6	10	2	1000	3750
LTV-073L		DC input, 100kBd, dual channel	SOP8	3.3/5	0.5	400 500	0.5 1.6	60	25	1000	3750

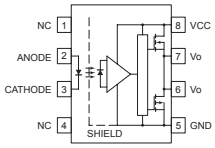
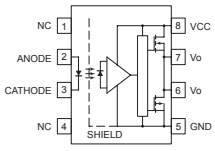
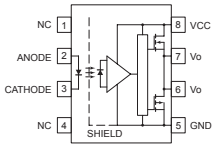
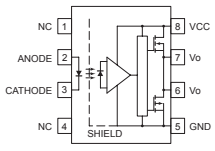
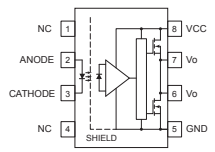
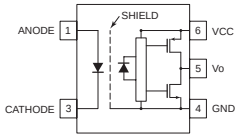
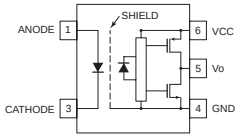
Integrated Gate Drive Photocoupler

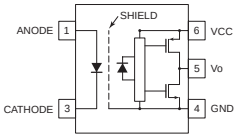
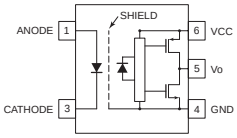
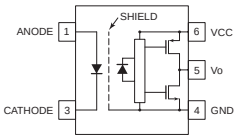
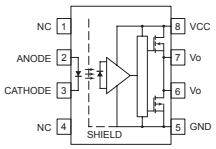
These photocouplers are ideally suited for driving power IGBTs and MOSFETs used in motor control inverter applications and inverters in power supply system. It contains an AlGaAs LED optically coupled to an integrated circuit with a power output stage. The 2.5A~3A peak output current is capable of directly driving most IGBTs with ratings up to 1200 V/100 A. The photocoupler operational parameters are guaranteed over the temperature range from -40°C ~ +105°C.

Application

- IGBT/MOSFET gate drive
- Uninterruptible power supply (UPS)
- Industrial Inverter
- Motor Dirve
- Induction Heat Cooker



Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	Peak Output Current min(A)	Peak Output Current max(A)	tPLH (us) Max	tPHL (us) Max	PWD (ns) Max	Supply Voltage (Vcc)	CM_L CM_H Min(V)	Viso min (Vrms)
LTV-3120		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	2	2.5	0.5	0.5	70	15-35	35000	5000
LTV-3150		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	0.8	1	0.2	0.2	70	15-35	35000	5000
LTV-3150-L		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	0.8	1	0.2	0.2	70	10-35	35000	5000
LTV-3180		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	DIP8	7	2	2.5	0.2	0.2	70	10-35	35000	5000
LTV-T350		DC Input, Direct drive of a medium-power, Low power dissipation	DIP8	7	2	2.5	0.5	0.5	200	15-35	35000	5000
LTV-152		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP5	7	2	2.5	0.17	0.19	70	10-35	35000	3750
LTV-155E		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP5	7	0.8	1	0.2	0.2	70	10-35	35000	3750

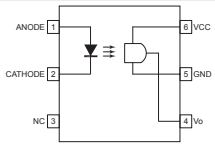
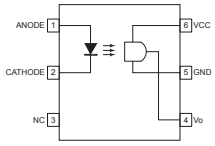
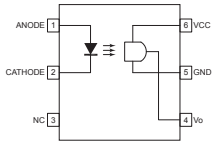
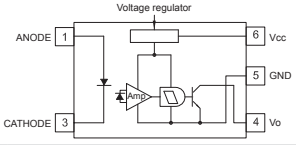
Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	Peak Output Current min(A)	Peak Output Current max(A)	tPLH (us) Max	tPHL (us) Max	PWD (ns) Max	Supply Voltage (Vcc)	CM_L CM_H Min(V)	Viso min (Vrms)
LTV-341P LTV-341W		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	3	3	0.2	0.2	70	15-35	35000	5000
LTV-340P LTV-340W		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	0.8	1	0.2	0.2	70	15-35	35000	5000
LTV-314P LTV-314W		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	LSOP6	7	0.8	1	0.2	0.2	70	10-35	35000	5000
LTV-0314		DC Input, Rail-to-Rail Output Voltage, Low power dissipation	SOP8	7	0.8	1	0.2	0.2	70	10-35	35000	3750

Schmitt Trigger

Liteon H11Lx-L has a high-speed integrated circuit detector (2MHz typical) optically coupled to infrared emitting diode. The output incorporates a Schmitt Trigger which provides hysteresis for noise immunity and pulse shaping.

Application

- ◆ Logic to logic isolator
- ◆ Programmable current level sensor
- ◆ Line receiver—eliminate noise and transient problems
- ◆ A.C. to TTL conversion—square wave shaping
- ◆ Digital programming of power supplies
- ◆ Interfaces computers with peripherals

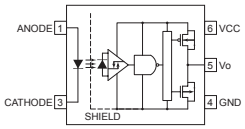
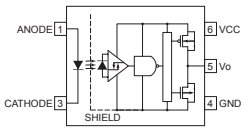
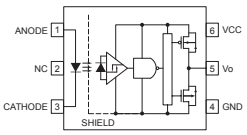
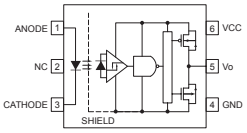
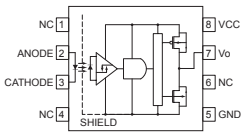
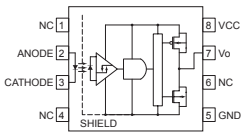
Part No.	Device	Feature	Package	IF_{ON} max (mA)	Turn-on time max(us)	Turn-off time max(us)	Data rate (Mbd)	V_{CC} (V)	Viso (Vrms)
H11L1-L		DC input	DIP6	1.6	1	1	2	3-16	5000
H11L2-L		DC input	DIP6	10	1	1	2	3-16	5000
H11L3-L		DC input	DIP6	5	1	1	2	3-16	5000
LTV-M400		DC input	SO5	2	4	4	2	3-16	3750

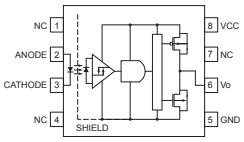
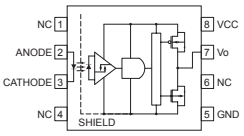
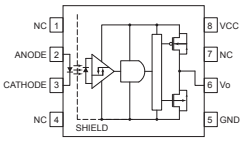
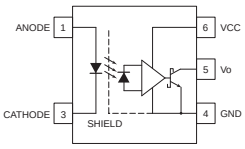
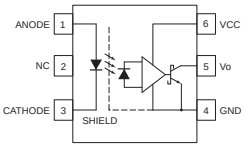
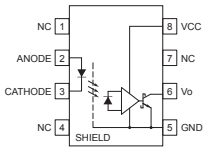
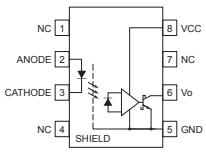
Intelligent Power Module Interface Photocoupler

Lite-On offers photocouplers ideal for isolated interfacing to an intelligent power module (IPM). IPM-drive photocouplers are available with an output in open-collector and inverting and noninverting totem-pole configurations. Therefore, you can find optimal photocouplers that best fit your needs, regardless of the input configuration (active level) of the driven IPM.

Application

- Intelligent power module
- Inverter/Motor control
- Power switch design
- General purpose digital isolation

Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	I_O min (mA)	CTR min(%)	CTR max(%)	I_F (mA)	tPLH (us)	tPHL (us)	P_{DD} max (us)	V_{CC} max (V)	CM_L CM_H Min (V)	Viso (Vrms)
LTV-M480		DC Input, IPM Totem Pole output, buffer logic	SOP5	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	3750
LTV-M481		DC Input, IPM Totem Pole output, Inverted logic	SOP5	4	160	-	-	-	0.16	0.16	0.16	35	20000	3750
LTV-480W LTV-480P		DC Input, IPM Totem Pole output, buffer logic	LSOP6	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000
LTV-481W LTV-481P		DC Input, IPM Totem Pole output, Inverted logic	LSOP6	4	160	-	-	-	0.16	0.16	0.16	35	20000	5000
LTV-0480		DC Input, IPM Totem Pole output, buffer logic	SOP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	3750
LTV-0481		DC Input, IPM Totem Pole output, Inverted logic	SOP8	4	160	-	-	-	0.16	0.16	0.16	35	20000	3750

Part No.	Device	Feature	Package	$I_{F(on)}$ min (mA)	I_O min (mA)	CTR min(%)	CTR max(%)	I_F (mA)	tPLH (us)	tPHL (us)	P_{DD} max (us)	V_{CC} max (V)	C_{ML} CM_H Min (V)	Viso (Vrms)
LTV-4800		DC Input, IPM Totem Pole output, buffer logic	DIP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000
LTV-4800-7		DC Input, IPM Totem Pole output, buffer logic	DIP8	1.6	160	-	-	-	0.2	0.22	0.21	35	20000	5000
LTV-4801		DC Input, IPM Totem Pole output, Inverted logic	DIP8	4	160	-	-	-	0.16	0.16	0.16	35	20000	5000
LTV-M456		DC Input, IPM open collector output	SOP5	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	3750
LTV-456W LTV-456P		DC Input, IPM open collector output	LSOP6	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	5000
LTV-0456		DC Input, IPM open collector output	SOP8	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	3750
LTV-4506		DC Input, IPM open collector output	DIP8	10	4.4	44	>90	10	0.55	0.4	0.45	35	15000	5000

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