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## LITE-ON DCC

## RELEASE

## Photocoupler LTV-5314 series

### 1.5 Amp Output Current IGBT Gate Drive Photocoupler with Rail-to-Rail Output Voltage in Stretched LSO5

## Description

The LTV-5314 series Photocoupler is ideally suited for driving power IGBTs and MOSFETs used in motor control inverter applications and inverters in power supply system. It contains an AIGaAs LED optically coupled to an integrated circuit with a power output stage. The Photocoupler operational parameters are guaranteed over the temperature range from $-40^{\circ} \mathrm{C} \sim+110^{\circ} \mathrm{C}$.

### 1.1 Features

1.5 A maximum peak output current
1.0 A minimum peak output current

Rail-to-rail output voltage
150 ns maximum propagation delay
100 ns maximum propagation delay difference
Under Voltage Lock-Out protection (UVLO) with hysteresis
$35 \mathrm{kV} /$ us minimum Common Mode Rejection (CMR) at $\mathrm{V}_{\mathrm{CM}}=1000 \mathrm{~V}$
Wide operating range: 10 to 30 Volts ( $\mathrm{V}_{\mathrm{CC}}$ )
Guaranteed performance over temperature $-40^{\circ} \mathrm{C} \sim+110^{\circ} \mathrm{C}$.
Safety approval:
UL1577
IEC/EN/DIN EN 60747-5-5
HALOGEN FREE

### 1.2 Applications

IGBT/MOSFET gate drive
Uninterruptible power supply (UPS)
Industrial Inverter
AC/Brushless DC motor drives
Switching power suppliers

Functional Diagram


Truth Table

| LED |  |  |  |
| :---: | :---: | :---: | :---: |
| High side | Lowe side | Vo |  |
| OFF | OFF | ON | Low |
| ON | ON | OFF | High |

Note: A $0.1 \mu \mathrm{~F}$ bypass capacitor must be connected between Pin 4 and 6.

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## Data Sheet <br> Photocoupler LTV-5314 series

## 2. PACKAGE DIMENSIONS

2.1 LTV-5314
2.2 LTV-5314W


Notes:

1. Year date code.
2. 2-digit work week.
3. Factory identification mark ( X : Tianjin).
4. "4" or "V" for VDE option.

* Dimensions are in Millimeters and (Inches).


## Photocoupler <br> LTV-5314 series

## 3. TAPING DIMENSIONS

### 3.1 LTV-5314-TP



### 3.3 LTV-5314-TP1



| Description | Symbol | Dimension in mm (inch) |
| :---: | :---: | :---: |
| Tape wide | W | $16 \pm 0.3(0.47)$ |
| Pitch of sprocket holes | $\mathrm{P}_{0}$ | $4 \pm 0.1(0.15)$ |
| Distance of compartment | F | $7.5 \pm 0.1(0.217)$ |
|  | $\mathrm{P}_{2}$ | $2 \pm 0.1(0.079)$ |
| Distance of compartment to <br> compartment | $\mathrm{P}_{1}$ | $8 \pm 0.1(0.315)$ |

3.5 Quantities Per Reel

| Package Type | LTV-5314 series |
| :---: | :---: |
| Quantities (pcs) | 3000 |

## Photocoupler LTV-5314 series

## 4. IEC/EN/DIN EN 60747-5-5 Insulation Characteristics

| Description | Symbol | LTV-5314 | Unit |
| :---: | :---: | :---: | :---: |
| Climatic Classification | - | 40/110/21 | - |
| Pollution Degree (DIN VDE 0110/1.89) | - | 2 | - |
| Maximum Working Insulation Voltage | VIORM | 1230 | $V_{\text {peak }}$ |
| Input to Output Test Voltage, Method b* $\mathrm{V}_{\text {IORM }} \times 1.875=\mathrm{V}_{\text {PR }}, 100 \%$ Production Test with $\mathrm{t}_{\mathrm{m}}=1 \mathrm{sec}$, Partial discharge $<5 \mathrm{pC}$ | $V_{\text {PR }}$ | 2310 | $V_{\text {peak }}$ |
| Input to Output Test Voltage, Method a* <br> $V_{\text {IORM }} \times 1.6=V_{\text {PR }}$, Type and Sample Test, $t m=10 \mathrm{sec}$, <br> Partial discharge < 5 pC | $V_{\text {PR }}$ | 1970 | $V_{\text {peak }}$ |
| Highest Allowable Overvoltage <br> (Transient Overvoltage $\mathrm{t}_{\mathrm{ini}}=60 \mathrm{sec}$ ) | $\mathrm{V}_{\text {IOTM }}$ | 8000 | $V_{\text {peak }}$ |
| Case Temperature | Ts | 175 | ${ }^{\circ} \mathrm{C}$ |
| Input Current | $\mathrm{I}_{\text {S, INPUT }}$ | 45 | mA |
| Output Power | Ps, output | 450 | mW |
| Insulation Resistance at TS, $\mathrm{V}_{10}=500 \mathrm{~V}$ | Rs | $>10^{9}$ | $\Omega$ |

* Refer to the optocoupler section of the Isolation and Control Components Designer's Catalog, under Product Safety Regulations section, (IEC/EN/DIN EN 60747-5-5) for a detailed description of Method a and Method b partial discharge test profiles.

Note: These optocouplers are suitable for "safe electrical isolation" only within the safety limit data. Maintenance of the safety data shall be ensured by means of protective circuits. Surface mount classification is Class A in accordance with CECC 00802.

### 4.1 Insulation and Safety Related Specification

| Parameter | Symbol | LTV-5314 | Unit | Test Condition |
| :--- | :---: | :---: | :---: | :--- |
| Minimum External Air Gap (External <br> Clearance) | $\mathrm{L}(101)$ | 8.0 | mm | Measured from input terminals to <br> output terminals, shortest distance <br> through air. |
| Minimum External Tracking (External <br> Clearance) | $\mathrm{L}(102)$ | 8.0 | mm | Measured from input terminals to <br> output terminals, shortest distance |
| Tracking Resistance (Comparative <br> Tracking Index) | CTI | $>175$ | V | DIN EN 60112 <br> (VDE 0303 Teil 11) |

## Photocoupler LTV-5314 series

## 5. RATING AND CHARACTERISTICS

### 5.1 Absolute Maximum Ratings

| Parameter | Symbol | Min | Max | Unit | Note |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Storage Temperature | $\mathrm{T}_{\text {stg }}$ | -55 | +125 | ${ }^{\circ} \mathrm{C}$ | - |
| Operating Temperature | $\mathrm{T}_{\text {opr }}$ | -40 | +110 | ${ }^{\circ} \mathrm{C}$ | - |
| Total Output Supply Voltage | $\left(\mathrm{V}_{\mathrm{CC}}-\mathrm{V}_{\text {EE }}\right.$ | 0 | 35 | V | - |
| Average Forward Input Current | $\mathrm{I}_{\mathrm{F}}$ | - | 20 | mA | - |
| Peak Transient Input Current | $\mathrm{I}_{\text {F(TRAN) }}$ | - | 1.0 | A | 1 |
| Reverse Input Voltage | $\mathrm{V}_{\mathrm{R}}$ | 5 | - | V | - |
| "High" Peak Output Current | $\mathrm{I}_{\text {OH(PEAK) }}$ | - | 1.5 | A | 2 |
| "Low" Peak Output Current | $\mathrm{I}_{\mathrm{OL} \text { (PEAK) }}$ | - | 1.5 | A | 2 |
| Output Voltage | $\mathrm{V}_{\mathrm{O}(\text { PEAK }}$ | - | $\mathrm{V}_{\mathrm{CC}}$ | V | - |
| Input Power Dissipation | $\mathrm{P}_{\mathrm{I}}$ | - | 40 | mW | - |
| Output IC Power Dissipation | $\mathrm{P}_{\mathrm{O}}$ | - | 450 | mW | - |
| Lead Solder Temperature | $\mathrm{T}_{\text {sol }}$ | - | 260 | ${ }^{\circ} \mathrm{C}$ | - |

Note: Ambient temperature $=25^{\circ} \mathrm{C}$, unless otherwise specified. Stresses exceeding the absolute maximum ratings can cause permanent damage to the device. Exposure to absolute maximum ratings for long periods of time can adversely affect reliability.
Note: A ceramic capacitor ( $1 \mu \mathrm{~F}$ ) should be connected between pin 6 and pin 4 to stabilize the operation of a high gain linear amplifier. Otherwise, this Photocoupler may not switch properly. The bypass capacitor should be placed within 1 cm of each pin.

Note 1: Pulse width $(P W) \leq 1 \mu \mathrm{~s}, 300 \mathrm{pps}$
Note 2: Exponential waveform. Pulse width $\leq 0.3 \mu \mathrm{~s}, \mathrm{f} \leq 15 \mathrm{kHz}$

### 5.2 Recommended Operating Conditions

| Parameter | Symbol | Min | Max | Unit | Note |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Supply Voltage | $\mathrm{V}_{\text {CC }}$ | 10 | 30 | V |  |
| Input Current (ON) | $\mathrm{I}_{\text {FL(ON) }}$ | 3 | 10 | mA | 1 |
| Input Voltage (OFF) | $\mathrm{V}_{\text {F(OFF) }}$ | 0 | 0.8 | V |  |
| Peak Low-Level Output Current | $\mathrm{I}_{\text {OPH }}$ | - | -1.5 | A |  |
| Peak Low-Level Output Current | $\mathrm{I}_{\text {OPL }}$ | - | 1.5 | A |  |
| Operating Frequency | f | - | 50 | kHz |  |

Note 1: The rise and fall times of the input on-current should be less than $0.5 \mu \mathrm{~s}$

### 5.3 ELECTRICAL OPTICAL CHARACTERISTICS

|  | Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition | Figure | Note |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Input | Input Forward Voltage | $\mathrm{V}_{\mathrm{F}}$ | 1.45 | 1.6 | 1.8 | V | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | 1 | - |
|  | Input Forward Voltage <br> Temperature Coefficient | $\Delta \mathrm{V}_{\mathrm{F}} / \Delta \mathrm{T}$ | - | -2.0 | - | $\mathrm{mV} /{ }^{\circ} \mathrm{C}$ | $\mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | - | - |
|  | Input Threshold Current (Low to High) | Iflh | - | 1 | 5 | mA | $\mathrm{V}_{\mathrm{cc}}=10-30 \mathrm{~V}, \mathrm{~V}_{\mathrm{O}}>1 \mathrm{~V}$ | 4,18 | - |
|  | Input Reverse Current | $I_{\text {R }}$ | - | - | 10 | uA | $V_{R}=5 \mathrm{~V}$ | - | - |
|  | Input Threshold Voltage (High to Low) | $\mathrm{V}_{\text {FHL }}$ | 0.8 | - | - | V | $\mathrm{V}_{\mathrm{CC}}=10-30 \mathrm{~V}, \mathrm{~V}_{\mathrm{O}}<1 \mathrm{~V}$ | - | - |
|  | Input Capacitance | $\mathrm{CIIN}^{\text {I }}$ | - | 33 | - | pF | $\mathrm{f}=1 \mathrm{MHz}, \mathrm{V}_{\mathrm{F}}=0 \mathrm{~V}$ | - | - |
| Output | High Level Supply <br> Current | $\mathrm{I}_{\mathrm{CCH}}$ | - | 1.7 | 3 | mA | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}, \mathrm{~V}_{\mathrm{CC}}=30 \mathrm{~V}, \\ & \mathrm{~V}_{\mathrm{O}}=\text { Open } \end{aligned}$ | 5,6 | - |
|  | Low Level Supply Current | $\mathrm{I}_{\text {ccl }}$ | - | 2.0 | 3 | mA | $\begin{aligned} & \mathrm{I}_{\mathrm{F}}=0 \mathrm{~mA}, \mathrm{~V}_{\mathrm{CC}}=30 \mathrm{~V}, \\ & \mathrm{~V}_{\mathrm{O}}=\text { Open } \end{aligned}$ |  | - |
|  | High level output current | $\mathrm{I}_{\text {OH }}$ | - | - | -0.4 | A | $\mathrm{V}_{\mathrm{O}}=\left(\mathrm{V}_{\mathrm{CC}}-1.5 \mathrm{~V}\right)$ | 10,16 | 1 |
|  |  |  | - | - | -1.5 |  | $\mathrm{V}_{\mathrm{O}}=\left(\mathrm{V}_{\mathrm{cc}}-4 \mathrm{~V}\right)$ |  | 2 |
|  | Low level output current | loL | 0.4 | - | - | A | $\mathrm{V}_{\mathrm{O}}=\left(\mathrm{V}_{\mathrm{EE}}+1.5 \mathrm{~V}\right)$ | 9,17 | 1 |
|  |  |  | 1.5 | - | - |  | $\mathrm{V}_{\mathrm{O}}=\left(\mathrm{V}_{\mathrm{EE}}+4 \mathrm{~V}\right)$ |  | 2 |
|  | High level output voltage | $\mathrm{V}_{\text {OH }}$ | $\begin{gathered} \mathrm{V}_{\mathrm{CC}} . \\ 0.3 \end{gathered}$ | $\begin{gathered} \mathrm{V}_{\mathrm{CC}} . \\ 0.1 \end{gathered}$ | - | V | $I_{F}=10 \mathrm{~mA}, \mathrm{I}_{0}=-100 \mathrm{~mA}$ | 8,14 | - |
|  | Low level output voltage | VoL | - | $\begin{aligned} & \mathrm{V}_{\mathrm{EE}+} \\ & 0.25 \end{aligned}$ | $\begin{gathered} \mathrm{V}_{\mathrm{EE}+} \\ 0.4 \end{gathered}$ | V | $\mathrm{I}_{\mathrm{F}}=0 \mathrm{~mA}, \mathrm{l}_{\mathrm{O}}=100 \mathrm{~mA}$ | 7,15 | - |
|  | UVLO Threshold | Vuvio+ | 6.9 | 7.8 | 8.7 | V | $\mathrm{V}_{\mathrm{O}}>5 \mathrm{~V}, \mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ | 19 | - |
|  |  | Vuvio. | 5.9 | 6.7 | 7.5 | V | $\mathrm{V}_{\mathrm{O}}<5 \mathrm{~V}, \mathrm{I}_{\mathrm{F}}=10 \mathrm{~mA}$ |  |  |
|  | UVLO Hysteresis | UVLOhys | - | 1.1 | - | V | - |  | - |

All Typical values at $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$ and $\mathrm{V} \mathrm{CC}-\mathrm{V}_{\mathrm{EE}}=30 \mathrm{~V}$, unless otherwise specified; all minimum and maximum specifications are at recommended operating condition. (Refer to 5.2)
Note 1: Maximum pulse width $=50 \mu \mathrm{~s}$.
Note 2: Maximum pulse width $=10 \mu \mathrm{~s}$.

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## 6. SWITCHING SPECIFICATION

| Parameter | Symbol | Min. | Typ. | Max. | Unit | Test Condition | Figure | Note |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Propagation Delay Time to High Output Level | tplh | 50 | 90 | 150 | ns | $\begin{aligned} & \mathrm{R}_{\mathrm{g}}=10 \Omega, \\ & \mathrm{C}_{\mathrm{g}}=25 \mathrm{nF}, \\ & \mathrm{f}=25 \mathrm{kHz}, \\ & \text { Duty Cycle }=50 \% \\ & \mathrm{I}_{\mathrm{F}}=3 \text { to } 10 \mathrm{~mA}, \\ & \mathrm{~V}_{\mathrm{CC}}=10 \text { to } 30 \mathrm{~V} \\ & \mathrm{~V}_{\mathrm{EE}}=\text { ground } \end{aligned}$ | $\begin{aligned} & 11,12, \\ & 13,20 \end{aligned}$ | - |
| Propagation Delay Time to Low Output Level | tphL | 50 | 110 | 150 |  |  |  | - |
| Pulse Width Distortion | PWD | - | - | 50 |  |  |  | - |
| Propagation delay difference between any two parts or channels | PDD | -100 | - | 100 |  |  |  | 3 |
| Output Rise Time (10 to 90\%) | Tr | - | 20 | - |  |  | 20 | - |
| Output Fall Time (90 to 10\%) | Tf | - | 25 | - |  |  |  | - |
| Common mode transient immunity at high level output | \|CM ${ }_{\text {H }}$ | 30 | - | - | kV/ $\mu \mathrm{s}$ | $\begin{aligned} & \mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}, \\ & \mathrm{I}_{\mathrm{F}}=5 \mathrm{~mA}, \\ & \mathrm{~V}_{\mathrm{CM}}=1000 \mathrm{~V}, \\ & \mathrm{~V}_{\mathrm{CC}}=30 \mathrm{~V} \end{aligned}$ | 21 | 1 |
| Common mode transient immunity at low level output | $\mid \mathrm{CM}_{\mathrm{L}}{ }^{\text {l }}$ | 30 | - | - | kV/ $/$ s | $\begin{aligned} & \mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}, \\ & \mathrm{~V}_{\mathrm{F}}=0 \mathrm{~V}, \\ & \mathrm{~V}_{\mathrm{CM}}=1000 \mathrm{~V}, \\ & \mathrm{~V}_{\mathrm{CC}}=30 \mathrm{~V} \end{aligned}$ |  | 2 |

All Typical values at $\mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$ and $\mathrm{V}_{\mathrm{CC}}-\mathrm{V}_{\mathrm{EE}}=30 \mathrm{~V}$, unless otherwise specified; all minimum and maximum specifications are at recommended operating condition. (Refer to 5.2)
Note 1: $\mathrm{CM}_{H}$ is the maximum rate of rise of the common mode voltage that can be sustained with the output voltage in the logic high state ( $\mathrm{V}_{\mathrm{O}}>15 \mathrm{~V}$ ).
Note 2: $\mathrm{CM}_{\mathrm{L}}$ is the maximum rate of fall of the common mode voltage that can be sustained with the output voltage in the logic low state ( $\mathrm{V}_{\mathrm{O}}<1 \mathrm{~V}$ ).
Note 3: The difference between tpHL and tpLH between any two parts series parts under same test conditions.

## 7. TYPICAL PERFORMANCE CURVES \& TEST CIRCUITS



Figure 1. IF vs. $\mathrm{V}_{\mathrm{F}}$


Figure 3. Po vs. Temperature


Figure 5. Iccl vs. Temperature


Figure 2. If vs. Temperature


Figure 4. IfLH vs. Temperature


Figure 6. Іссн vs. Temperature


Figure 7. Vol vs. Temperature


Figure 9. Vol vs. Iopl


Figure 11. Propagation Delay Time vs. Temperature


Figure 8. (Vсс-Vон) vs. Temperature


Figure 10. Vон vs. Іорн


Figure 12. Propagation Delay Time vs. IF


Figure 13. Propagation Delay Time vs. Vcc


Figure 14 : Voн Test Circuit


Figure 16 : Іон Test Circuit

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Figure 15 : Vol Test Circuit


Figure 17 : lol Test Circuit


Figure 18 : IfLH Test Circuit
Figure 19 : Uvlo Test Circuit


Figure 20 : tr, tf, tpLH and tpHL Test Circuit and Waveforms


Figure 21 : CMR Test Circuit and Waveforms

## Data Sheet

## Photocoupler LTV-5314 series

## 8. ISOLATION CHARACTERISTIC

| Parameter | Symbo | Device | Min. | Typ. | Max. | Unit | Test Condition | Note |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Withstand Insulation | $\mathrm{V}_{\text {ISO }}$ | LTV-5314 | 5000 | - | - | V | $\mathrm{RH} \leq 40 \%-60 \%$, | 1,2 |
| Input-Output <br> Resistance | $\mathrm{R}_{\text {t-O }}$ | - | - | $10^{12}$ | - | $\Omega$ | $\mathrm{V}_{\text {I-O }}=500 \mathrm{~V}$ DC | 1 |
| Input-Output <br> Capacitance | $\mathrm{C}_{\text {I-O }}$ | - | - | 0.9 | - | pF | $\mathrm{f}=1 \mathrm{MHz}, \mathrm{T}_{\mathrm{A}}=25^{\circ} \mathrm{C}$ | 1 |

All Typical values at $T_{A}=25^{\circ} \mathrm{C}$ unless otherwise specified. All minimum and maximum specifications are at recommended operating condition. (Refer to 5.2)
Note 1: Device is considered a two terminal device: pins 1, 2, 3 are shorted together and pins 4, 5, 6 are shorted together.
Note 2: According to UL1577, each photocoupler is tested by applying an insulation test voltage $6000 \mathrm{~V}_{\text {RMs }}$ for one second (leakage current less than 10 uA ). This test is performed before the $100 \%$ production test for partial discharge

## Data Sheet

## Photocoupler LTV-5314 series

## 9. TEMPERATURE PROFILE OF SOLDERING

9.1 IR Reflow soldering (JEDEC-STD-020C compliant)

One time soldering reflow is recommended within the condition of temperature and time profile shown below. Do not solder more than three times.

| Profile item | Conditions |
| :---: | :---: |
| Preheat <br> - Temperature Min ( $\mathrm{T}_{\mathrm{smin}}$ ) <br> - Temperature Max ( $\mathrm{T}_{\mathrm{Smax}}$ ) <br> - Time (min to max) (ts) | $\begin{gathered} 150^{\circ} \mathrm{C} \\ 200^{\circ} \mathrm{C} \\ 90 \pm 30 \mathrm{sec} \end{gathered}$ |
| Soldering zone <br> - Temperature ( $\mathrm{T}_{\mathrm{L}}$ ) <br> - Time ( $\mathrm{t}_{\mathrm{L}}$ ) | $\begin{gathered} 217^{\circ} \mathrm{C} \\ 60 \sim 100 \mathrm{sec} \end{gathered}$ |
| Peak Temperature ( $\mathrm{T}_{\mathrm{P}}$ ) | $260^{\circ} \mathrm{C}$ |
| Ramp-up rate | $3^{\circ} \mathrm{C} / \mathrm{sec}$ max. |
| Ramp-down rate | $3 \sim 6{ }^{\circ} \mathrm{C} / \mathrm{sec}$ |



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9.2 Wave soldering (JEDEC22A111 compliant)

One time soldering is recommended within the condition of temperature.
Temperature: $260+0 /-5^{\circ} \mathrm{C}$
Time: 10 sec .
Preheat temperature:25 to $140^{\circ} \mathrm{C}$
Preheat time: 30 to 80 sec .

9.3 Hand soldering by soldering iron

Allow single lead soldering in every single process. One time soldering is recommended.
Temperature: $380+0 /-5^{\circ} \mathrm{C}$
Time: 3 sec max.

Part No. : LTV-5314 series

## 10. NAMING RULE

|  | Lead Frame |  | Suffix option |  |  | Quantity |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Part Number | Type | Clearance distance | Tape\&Reel Option | IEC/EN/DIN <br> EN60747-5-5 | Customer Code |  |
| LTV-5314 | Surface mount S-loop type | Min. 8mm | TP | -V | - | 3000 pcs per reel |
| LTV-5314W | Surface mount W-loop type |  | TP1 |  |  |  |

## Example 1 : LTV-5314-TP1

Example 2 : LTV5314WTP1-V

> *Naming rule of VDE option : All "-" before -V be removed

## 11. Notes

- LiteOn is continually improving the quality, reliability, function or design and LiteOn reserves the right to make changes without further notices.
- The products shown in this publication are designed for the general use in electronic applications such as office automation equipment, communications devices, audio/visual equipment, electrical application and instrumentation.
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- When requiring a device for any "specific" application, please contact our sales in advice.
- If there are any questions about the contents of this publication, please contact us at your convenience.
- The contents described herein are subject to change without prior notice.
- Immerge unit's body in solder paste is not recommended.


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