



Image may be representation.  
See specifications for product details.



## CPH6442-TL-W

|                          |                                  |
|--------------------------|----------------------------------|
| Manufacturer Part Number | <b>CPH6442-TL-W</b>              |
| Manufacturer             | <b>onsemi</b>                    |
| Allelco Part Number      | 32D-CPH6442-TL-W                 |
| ECAD Model               | PCB Symbol, Footprint & 3D Model |
| Parts Description        | MOSFET N-CH 60V 6A 6CPH          |
| Package                  | SOT-23-6 Thin, TSOT-23-6         |
| Data sheet               | <b>CPH6442.pdf</b>               |
| RoHs Status              | ROHS3 Compliant                  |

**Get a Quote**

CPH6442-TL-W - onsemi.New Original in Stock. Download Linear Technology CPH6442-TL-W datasheet/specifications on AllelcoElec.com.  
Request a quote for CPH6442-TL-W, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

CPH6442-TL-W Tech Specifications

CPH6442-TL-W - onsemi technical specifications, attributes, parameters

| Product Attribute       | Attribute Value          | Product Attribute                      | Attribute Value |
|-------------------------|--------------------------|--|-----------------|
| Manufacturer            | onsemi                   | Operating Temperature                  | 150°C (TJ)      |
| Vgs(th) (Max) @ Id      | 2.6V @ 1mA               | Mounting Type                          | Surface Mount   |
| Vgs (Max)               | ±20V                     | Input Capacitance (Ciss) (Max) @ Vds   | 1040 pF @ 20 V  |
| Technology              | MOSFET (Metal Oxide)     | Gate Charge (Qg) (Max) @ Vgs           | 20 nC @ 10 V    |
| Supplier Device Package | 6-CPH                    | FET Type                               | N-Channel       |
| Series                  | -                        | FET Feature                            | -               |
| Rds On (Max) @ Id, Vgs  | 43mOhm @ 3A, 10V         | Drive Voltage (Max Rds On, Min Rds On) | 4V, 10V         |
| Power Dissipation (Max) | 1.6W (Ta)                | Drain to Source Voltage (Vdss)         | 60 V            |
| Package / Case          | SOT-23-6 Thin, TSOT-23-6 | Current - Continuous Drain (Id) @ 25°C | 6A (Ta)         |
| Package                 | Tape & Reel (TR)         | Base Product Number                    | CPH6442         |

### Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi CPH6442-TL-W

| Product Attribute                      |                          |                      |                          |                      |
|--|--------------------------|----------------------|--------------------------|----------------------|
| Part Number                            | CPH6442-TL-W             | CPH6444-TL-E         | CPH6434-TL-E             | CPH6445-TL-E         |
| Manufacturer                           | onsemi                   | onsemi               | Sanyo                    | onsemi               |
| FET Feature                            | -                        | -                    | -                        | -                    |
| Mounting Type                          | Surface Mount            | Surface Mount        | Surface Mount            | Surface Mount        |
| FET Type                               | N-Channel                | N-Channel            | N-Channel                | N-Channel            |
| Rds On (Max) @ Id, Vgs                 | 43mOhm @ 3A, 10V         | 78mOhm @ 2A, 10V     | 41mOhm @ 3A, 4V          | 117mOhm @ 1.5A, 10V  |
| Package                                | Tape & Reel (TR)         | Tape & Reel (TR)     | Bulk                     | Tape & Reel (TR)     |
| Base Product Number                    | CPH6442                  | CPH6444              | -                        | CPH644               |
| Drain to Source Voltage (Vdss)         | 60 V                     | 60 V                 | 30 V                     | 60 V                 |
| Current - Continuous Drain (Id) @ 25°C | 6A (Ta)                  | 4.5A (Ta)            | 6A (Ta)                  | 3.5A (Ta)            |
| Package / Case                         | SOT-23-6 Thin, TSOT-23-6 | SOT-23-6             | SOT-23-6 Thin, TSOT-23-6 | SOT-23-6             |
| Operating Temperature                  | 150°C (TJ)               | 150°C (TJ)           | 150°C (TJ)               | -                    |
| Supplier Device Package                | 6-CPH                    | 6-CPH                | 6-CPH                    | 6-CPH                |
| Vgs(th) (Max) @ Id                     | 2.6V @ 1mA               | -                    | -                        | -                    |
| Series                                 | -                        | -                    | -                        | -                    |
| Drive Voltage (Max Rds On, Min Rds On) | 4V, 10V                  | 4V, 10V              | -                        | -                    |
| Gate Charge (Qg) (Max) @ Vgs           | 20 nC @ 10 V             | 10 nC @ 10 V         | 7 nC @ 4 V               | 6.8 nC @ 10 V        |
| Input Capacitance (Ciss) (Max) @ Vds   | 1040 pF @ 20 V           | 505 pF @ 20 V        | 790 pF @ 10 V            | 310 pF @ 20 V        |
| Vgs (Max)                              | ±20V                     | ±20V                 | -                        | -                    |
| Technology                             | MOSFET (Metal Oxide)     | MOSFET (Metal Oxide) | MOSFET (Metal Oxide)     | MOSFET (Metal Oxide) |
| Power Dissipation (Max)                | 1.6W (Ta)                | 1.6W (Ta)            | 1.6W (Ta)                | -                    |

### CPH6442-TL-W Datasheet PDF

Download CPH6442-TL-W pdf datasheets and onsemi documentation for CPH6442-TL-W - onsemi.

#### Datasheets

CPH6442.pdf

#### Environmental Information

onsemi REACH.pdf

onsemi RoHS.pdf



## Customers Also Interested in

### Recommended Products

**CPH6444-TL-E**onsemi  
MOSFET N-CH 60V 4.5A 6CPH**CPH6434-TL-E**Sanyo  
N-CHANNEL SILICON MOSFET**CPH6445-TL-E**onsemi  
MOSFET N-CH 60V 3.5A CPH6**CPH6445-TL-H**

ON/SANYO

**CPH6443-TL-W**onsemi  
MOSFET N-CH 35V 6A 6CPH**CPH6429-TL-E**onsemi  
MOSFET N-CH 60V 2A 6CPH**CPH6445-TL-W**onsemi  
MOSFET N-CH 60V 3.5A 6CPH**CPH6442-TL-E**onsemi  
MOSFET N-CH 60V 6A 6CPH**CPH6438-TL-E**

AMI Semiconductor/onsemi

**CPH6414-TL-E**Sanyo  
GENERAL-PURPOSE SWITCHING  
DEVICE**CPH6429**

AMI Semiconductor/onsemi

**CPH6443-TL-H**Sanyo  
MOSFET N-CH 35V 6A 6CPH**CPH6416-TL-E**onsemi  
NCH 4V DRIVE SERIES**CPH6501-TL-E**onsemi  
TRANS NPN 30V 1.5A CPH6**CPH6415-TL-E**onsemi  
NCH 1.8V DRIVE SERIES**CPH6428-TL-E**

AMI Semiconductor/onsemi

**CPH6444-TL-W**onsemi  
MOSFET N-CH 60V 4.5A 6CPH**CPH6424-TL-E**Sanyo  
N-CHANNEL MOSFET

## Shipment

### Delivery Time

In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

### Delivery Cost

> Use your express account for shipment if you have one.

> Use our account for the shipment. Refer to the table below for the approximate charges.

(Different time frame / countries / package size has different price.)

### Delivery Method

> Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.

> Others more shipping ways, please get in touch with your customer manager.

**Common Countries Logistic Time Reference**

| Region      | Country        | Logistic Time(Day) |
|-------------|----------------|--------------------|
| America     | United States  | 5                  |
|             | Brazil         | 7                  |
| Europe      | Germany        | 5                  |
|             | United Kingdom | 4                  |
|             | Italy          | 5                  |
| Oceania     | Australia      | 6                  |
|             | New Zealand    | 7                  |
| Asia        | India          | 6                  |
|             | Japan          | 7                  |
| Middle East | Israel         | 6                  |

**DHL & FedEx Shipment Charges Reference**

| Shipment charges(KG) | Reference DHL(USD\$) |
|----------------------|----------------------|
| 0.00kg-1.00kg        | USD\$60.00           |
| 1.00kg-2.00kg        | USD\$70.00           |
| 2.00kg-3.00kg        | USD\$80.00           |

Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.

Contact us if you have any questions.

## Payment Support

The payment method can be chosen from the methods shown below:

Wire Transfer (T/T, Bank Transfer), Western Union, Credit card, PayPal.



## Your Faithful Supply Chain Partner -



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Fast Sourcing &  
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## Certifications & Memberships



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