

Image may be representation.  
See specifications for product details.



## STPS40120CT

|                          |                                    |
|--------------------------|------------------------------------|
| Manufacturer Part Number | <a href="#">STPS40120CT</a>        |
| Manufacturer             | <a href="#">STMicroelectronics</a> |
| Allelco Part Number      | 32D-STPS40120CT                    |
| ECAD Model               | PCB Symbol, Footprint & 3D Model   |
| Parts Description        | DIODE ARRAY SCHOTTKY 120V TO220    |
| Package                  | TO-220-3                           |
| Data sheet               | <a href="#">STPS40120C.pdf</a>     |
| RoHs Status              | ROHS3 Compliant                    |

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STPS40120CT - STMicroelectronics.New Original in Stock. Download Linear Technology STPS40120CT datasheet/specifications on AllelcoElec.com.  
Request a quote for STPS40120CT, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STPS40120CT Tech Specifications  
STPS40120CT - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute                 | Attribute Value                      | Product Attribute                            | Attribute Value       |
|-----------------------------------|--------------------------------------|--|-----------------------|
| Manufacturer                      | STMicroelectronics                   | Package                                      | Tube                  |
| Voltage - Forward (Vf) (Max) @ If | 900 mV @ 20 A                        | Operating Temperature - Junction             | 175°C (Max)           |
| Voltage - DC Reverse (Vr) (Max)   | 120 V                                | Mounting Type                                | Through Hole          |
| Technology                        | Schottky                             | Diode Configuration                          | 1 Pair Common Cathode |
| Supplier Device Package           | TO-220                               | Current - Reverse Leakage @ Vr               | 25 µA @ 120 V         |
| Speed                             | Fast Recovery =< 500ns, > 200mA (Io) | Current - Average Rectified (Io) (per Diode) | 20A                   |
| Series                            | -                                    | Base Product Number                          | STPS40120             |
| Package / Case                    | TO-220-3                             |  |                       |

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STPS40120CT

| Product Attribute                            |                                      |  |                                      |                                      |
|--|--------------------------------------|--|--------------------------------------|--------------------------------------|
| Part Number                                  | STPS40120CT                          | <a href="#">STPS40170CGY-TR</a>                        | <a href="#">STPS40100CT</a>          | <a href="#">STPS40150CW</a>          |
| Manufacturer                                 | STMicroelectronics                   | STMicroelectronics                                     | STMicroelectronics                   | STMicroelectronics                   |
| Current - Reverse Leakage @ Vr               | 25 µA @ 120 V                        | 30 µA @ 170 V  | -                                    | 8 µA @ 150 V                         |
| Voltage - DC Reverse (Vr) (Max)              | 120 V                                | 170 V  | 100 V                                | 150 V                                |
| Series                                       | -                                    | Automotive, AEC-Q101                                   | -                                    | -                                    |
| Diode Configuration                          | 1 Pair Common Cathode                | 1 Pair Common Cathode                                  | 1 Pair Common Cathode                | 1 Pair Common Cathode                |
| Mounting Type                                | Through Hole                         | Surface Mount  | Through Hole                         | Through Hole                         |
| Package                                      | Tube                                 | Tape & Reel (TR)                                       | Tube                                 | Tube                                 |
| Base Product Number                          | STPS40120                            | STPS40170  | STPS401                              | STPS40150                            |
| Speed  | Fast Recovery =< 500ns, > 200mA (Io) | Fast Recovery =< 500ns, > 200mA (Io)                   | Fast Recovery =< 500ns, > 200mA (Io) | Fast Recovery =< 500ns, > 200mA (Io) |
| Current - Average Rectified (Io) (per Diode) | 20A                                  | 20A  | 20A (DC)                             | 20A                                  |
| Supplier Device Package                      | TO-220                               | D <sup>2</sup> PAK                                     | TO-220                               | TO-247-3                             |
| Operating Temperature - Junction             | 175°C (Max)                          | -40°C ~ 175°C  | -                                    | 175°C (Max)                          |
| Technology                                   | Schottky                             | Schottky   | Schottky                             | Schottky                             |
| Package / Case                               | TO-220-3                             | TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB | TO-220-3                             | TO-247-3                             |
| Voltage - Forward (Vf) (Max) @ If            | 900 mV @ 20 A                        | 920 mV @ 20 A  | -                                    | 920 mV @ 20 A                        |

### STPS40120CT Datasheet PDF

Download STPS40120CT pdf datasheets and STMicroelectronics documentation for STPS40120CT - STMicroelectronics.

#### Datasheets

[STPS40120C.pdf](#)

#### PCN Design/Specification

[Mult Dev Adv Material Notice 8/Apr/2019.pdf](#)

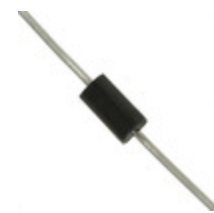
#### PCN Assembly/Origin

[TO-220 Capacity Expansion 18/Jun/2013.pdf](#)

### Customers Also Interested in

#### Recommended Products



**STPS40170CGY-TR**STMicroelectronics  
DIODE ARRAY SCHOTTKY 170V  
D2PAK**STPS3L60RL**STMicroelectronics  
DIODE SCHOTTKY 60V 3A DO201AD**STPS40150CGY-TR**STMicroelectronics  
AUTOMOTIVE 150 V, 50 A POWER  
SCH**STPS3L60UY**STMicroelectronics  
DIODE SCHOTTKY 60V 3A SMB**STPS3L60S**STMicroelectronics  
DIODE SCHOTTKY 60V 3A SMC**STPS40170CW**STMicroelectronics  
DIODE ARRAY SCHOTTKY 170V  
TO247**STPS40100CT**STMicroelectronics  
DIODE ARRAY SCHOTTKY 100V  
TO220**STPS3L60U**STMicroelectronics  
DIODE SCHOTTKY 60V 3A SMB**STPS40150CT**STMicroelectronics  
DIODE ARRAY SCHOTTKY 150V  
TO220**STPS40150CW**STMicroelectronics  
DIODE ARRAY SCHOTTKY 150V  
TO247**STPS40170CG**STMicroelectronics  
DIODE ARRAY SCHOTTKY 170V  
D2PAK**STPS3L60Q**STMicroelectronics  
DIODE SCHOTTKY 60V 3A DO15**STPS40150CG**STMicroelectronics  
DIODE ARRAY SCHOTTKY 150V  
D2PAK**STPS40150CG-TR**STMicroelectronics  
DIODE ARRAY SCHOTTKY 150V  
D2PAK**STPS3L60SY**STMicroelectronics  
DIODE SCHOTTKY 60V 3A SMC**STPS40170CT**STMicroelectronics  
DIODE ARRAY SCHOTTKY 170V  
TO220**STPS4030CT**STMicroelectronics  
DIODE ARRAY SCHOTTKY 30V  
TO220AB**STPS3L60UF**STMicroelectronics  
DIODE SCHOTTKY 60V 3A SMBFLAT

## 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.



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Fast Sourcing &  
Delivery

Contact us if you have any questions.



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