



Image may be representation.  
See specifications for product details.



## STPSC2H12B-TR1

|                          |                                              |
|--------------------------|----------------------------------------------|
| Manufacturer Part Number | <b>STPSC2H12B-TR1</b>                        |
| Manufacturer             | <b>STMicroelectronics</b>                    |
| Allelco Part Number      | 32D-STPSC2H12B-TR1                           |
| ECAD Model               | PCB Footprint and Symbol                     |
| Parts Description        | <b>DIODE SIL CARBIDE 1.2KV 5A DPAK</b>       |
| Package                  | <b>TO-252-3, DPak (2 Leads + Tab), SC-63</b> |
| Data sheet               | <b>STPSC2H12.pdf</b>                         |

**Get a Quote**

STPSC2H12B-TR1 - STMicroelectronics.New Original in Stock. Download Linear Technology STPSC2H12B-TR1 datasheet/specifications on AllelcoElec.com.  
Request a quote for STPSC2H12B-TR1, please send us email: [info@allelco.com](mailto:info@allelco.com)

## Specifications

STPSC2H12B-TR1 Tech Specifications  
STPSC2H12B-TR1 - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute                 | Attribute Value                | Product Attribute                | Attribute Value                       |
|-----------------------------------|--------------------------------|----------------------------------|---------------------------------------|
| Manufacturer                      | STMicroelectronics             | Package / Case                   | TO-252-3, DPak (2 Leads + Tab), SC-63 |
| Voltage - Forward (Vf) (Max) @ If | 1.5 V @ 2 A                    | Package                          | Tape & Reel (TR)                      |
| Voltage - DC Reverse (Vr) (Max)   | 1200 V                         | Operating Temperature - Junction | -40°C ~ 175°C                         |
| Technology                        | SiC (Silicon Carbide) Schottky | Mounting Type                    | Surface Mount                         |
| Supplier Device Package           | DPAK                           | Current - Reverse Leakage @ Vr   | 12 µA @ 1200 V                        |
| Speed                             | No Recovery Time > 500mA (Io)  | Current - Average Rectified (Io) | 5A                                    |
| Series                            | ECOPACK®                       | Capacitance @ Vr, F              | 190pF @ 0V, 1MHz                      |
| Reverse Recovery Time (trr)       | 0 ns                           | Base Product Number              | STPSC2                                |

## Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STPSC2H12B-TR1

| Product Attribute                 |                                       |                                |                                       |                                                        |
|-----------------------------------|---------------------------------------|--------------------------------|---------------------------------------|--------------------------------------------------------|
| Part Number                       | STPSC2H12B-TR1                        | STPSC2H12D                     | STPSC5H12B-TR1                        | STPSC20H12GY-TR                                        |
| Manufacturer                      | STMicroelectronics                    | STMicroelectronics             | STMicroelectronics                    | STMicroelectronics                                     |
| Supplier Device Package           | DPAK                                  | TO-220AC                       | DPAK                                  | D <sup>2</sup> PAK                                     |
| Technology                        | SiC (Silicon Carbide) Schottky        | SiC (Silicon Carbide) Schottky | SiC (Silicon Carbide) Schottky        | SiC (Silicon Carbide) Schottky                         |
| Speed                             | No Recovery Time > 500mA (Io)         | No Recovery Time > 500mA (Io)  | No Recovery Time > 500mA (Io)         | No Recovery Time > 500mA (Io)                          |
| Mounting Type                     | Surface Mount                         | Through Hole                   | Surface Mount                         | Surface Mount                                          |
| Series                            | ECOPACK®                              | ECOPACK®2                      | ECOPACK®                              | Automotive, AEC-Q101, ECOPACK®2                        |
| Voltage - Forward (Vf) (Max) @ If | 1.5 V @ 2 A                           | 1.5 V @ 2 A                    | 1.5 V @ 5 A                           | 1.5 V @ 20 A                                           |
| Operating Temperature - Junction  | -40°C ~ 175°C                         | -40°C ~ 175°C                  | -40°C ~ 175°C                         | -40°C ~ 175°C                                          |
| Current - Average Rectified (Io)  | 5A                                    | 2A                             | 5A                                    | 20A                                                    |
| Voltage - DC Reverse (Vr) (Max)   | 1200 V                                | 1200 V                         | 1200 V                                | 1200 V                                                 |
| Current - Reverse Leakage @ Vr    | 12 µA @ 1200 V                        | 12 µA @ 1200 V                 | 30 µA @ 1200 V                        | 120 µA @ 1200 V                                        |
| Base Product Number               | STPSC2                                | STPSC2                         | STPSC5                                | STPSC20                                                |
| Reverse Recovery Time (trr)       | 0 ns                                  | 0 ns                           | 0 ns                                  | 0 ns                                                   |
| Capacitance @ Vr, F               | 190pF @ 0V, 1MHz                      | 190pF @ 0V, 1MHz               | 450pF @ 0V, 1MHz                      | 1650pF @ 0V, 1MHz                                      |
| Package                           | Tape & Reel (TR)                      | Tube                           | Tape & Reel (TR)                      | Tape & Reel (TR)                                       |
| Package / Case                    | TO-252-3, DPak (2 Leads + Tab), SC-63 | TO-220-2                       | TO-252-3, DPak (2 Leads + Tab), SC-63 | TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB |

## STPSC2H12B-TR1 Datasheet PDF

Download STPSC2H12B-TR1 pdf datasheets and STMicroelectronics documentation for STPSC2H12B-TR1 - STMicroelectronics.

### Datasheets

[STPSC2H12.pdf](#)

### PCN Obsolescence/ EOL

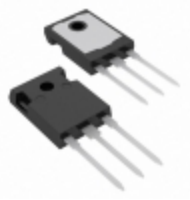
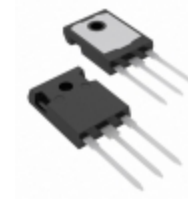
[Mult Dev OBS 24/Nov/2020.pdf](#)

### PCN Assembly/Origin

[Mult dev Wafer update 12/Feb/2018.pdf](#)

## Customers Also Interested in

### Recommended Products

**STPSC2H12D**STMicroelectronics  
DIODE SIL CARB 1.2KV 2A TO220AC**STPSC5H12B-TR1**STMicroelectronics  
DIODE SIL CARBIDE 1.2KV 5A DPAK**STPSC20H12GY-TR**STMicroelectronics  
DIODE SIL CARB 1.2KV 20A D2PAK**STPSC20H12CWY**STMicroelectronics  
AUTOMOTIVE SIC DIODES**STPSC20H065CW**STMicroelectronics  
DIODE ARRAY SCHOTTKY 650V TO247**STPSC20H12D**STMicroelectronics  
DIODE SIL CARB 1.2KV 20A TO220AC**STPSC20H12CWL**STMicroelectronics  
DIODE ARRAY SCHOTTKY 1200V TO247**STPSC2006CW**STMicroelectronics  
DIODE ARRAY SCHOTTKY 600V TO247**STPSC4H065DI**STMicroelectronics  
DIODE SIC 650V 4A TO220AC INS**STPSC40H12CWL**STMicroelectronics  
DIODE ARRAY SCHOTTKY 1200V TO247**STPSC40065CW**STMicroelectronics  
DIODE SCHOTTKY 650V TO-247**STPSC406B-TR**STMicroelectronics  
DIODE SIL CARBIDE 600V 4A DPAK**STPSC4H065D**STMicroelectronics  
DIODE SIL CARB 650V 4A TO220AC**STPSC4H065B-TR**STMicroelectronics  
DIODE SIL CARBIDE 650V 4A DPAK**STPSC20H12G-TR**STMicroelectronics  
DIODE SIL CARB 1.2KV 20A D2PAK**STPSC606D**STMicroelectronics  
DIODE SIL CARB 600V 6A TO220AC**STPSC20H065CT**STMicroelectronics  
DIODE SCHOTTKY 650V 10A TO220AB**STPSC20H12DY**STMicroelectronics  
DIODE SIL CARB 1.2KV 20A TO220AC

## 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           |

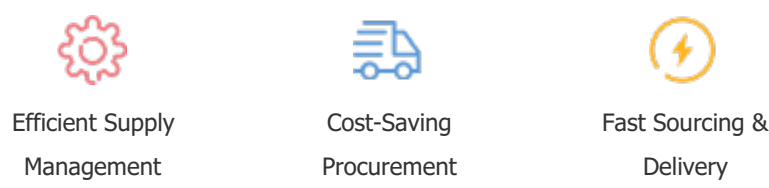
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

## 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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