



STPSC20H12DY

Manufacturer Part Number	STPSC20H12DY
Manufacturer	STMicroelectronics
Allelco Part Number	32D-STPSC20H12DY
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	DIODE SIL CARB 1.2KV 20A TO220AC
Package	TO-220-2
Data sheet	STPSC20H12-Y.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

STPSC20H12DY - STMicroelectronics. New Original in Stock. Download Linear Technology STPSC20H12DY datasheet/specifications on AllelcoElec.com.
Request a quote for STPSC20H12DY, please send us email: info@allelco.com

Specifications

STPSC20H12DY Tech Specifications
STPSC20H12DY - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package / Case	TO-220-2
Voltage - Forward (Vf) (Max) @ If	1.5 V @ 20 A	Package	Tube
Voltage - DC Reverse (Vr) (Max)	1200 V	Operating Temperature - Junction	-40°C ~ 175°C
Technology	SiC (Silicon Carbide) Schottky	Mounting Type	Through Hole
Supplier Device Package	TO-220AC	Current - Reverse Leakage @ Vr	120 µA @ 1200 V
Speed	No Recovery Time > 500mA (Io)	Current - Average Rectified (Io)	20A
Series	Automotive, AEC-Q101, ECOPACK®2	Capacitance @ Vr, F	1650pF @ 0V, 1MHz
Reverse Recovery Time (trr)	0 ns	Base Product Number	STPSC20

Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STPSC20H12DY

Product Attribute				
Part Number	STPSC20H12DY	STPSC20065W	STPSC406B-TR	STPSC20H12GY-TR
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Current - Average Rectified (Io)	20A	20A	4A	20A
Capacitance @ Vr, F	1650pF @ 0V, 1MHz	1250pF @ 0V, 1MHz	200pF @ 0V, 1MHz	1650pF @ 0V, 1MHz
Mounting Type	Through Hole	Through Hole	Surface Mount	Surface Mount
Technology	SiC (Silicon Carbide) Schottky	SiC (Silicon Carbide) Schottky	SiC (Silicon Carbide) Schottky	SiC (Silicon Carbide) Schottky
Operating Temperature - Junction	-40°C ~ 175°C	-40°C ~ 175°C	-40°C ~ 175°C	-40°C ~ 175°C
Speed	No Recovery Time > 500mA (Io)	No Recovery Time > 500mA (Io)	No Recovery Time > 500mA (Io)	No Recovery Time > 500mA (Io)
Package	Tube	Tube	Tape & Reel (TR)	Tape & Reel (TR)
Package / Case	TO-220-2	DO-247-2 (Straight Leads)	TO-252-3, DPak (2 Leads + Tab), SC-63	TO-263-3, D²Pak (2 Leads + Tab), TO-263AB
Current - Reverse Leakage @ Vr	120 µA @ 1200 V	300 µA @ 650 V	50 µA @ 600 V	120 µA @ 1200 V
Supplier Device Package	TO-220AC	DO-247	DPAK	D²PAK
Voltage - Forward (Vf) (Max) @ If	1.5 V @ 20 A	1.45 V @ 20 A	1.9 V @ 4 A	1.5 V @ 20 A
Base Product Number	STPSC20	STPSC20065	STPSC406	STPSC20
Series	Automotive, AEC-Q101, ECOPACK®2	ECOPACK®2	-	Automotive, AEC-Q101, ECOPACK®2
Voltage - DC Reverse (Vr) (Max)	1200 V	650 V	600 V	1200 V
Reverse Recovery Time (trr)	0 ns	0 ns	0 ns	0 ns

STPSC20H12DY Datasheet PDF

Download STPSC20H12DY pdf datasheets and STMicroelectronics documentation for STPSC20H12DY - STMicroelectronics.

Datasheets

[STPSC20H12-Y.pdf](#)

PCN Obsolescence/ EOL

[EOL ADG-23-13935 17/Feb/2023.pdf](#)

PCN Design/Specification

[Mult Dev Mold Comp Chg 10/May/2019.pdf](#)

[SiC 1200V 06-Apr-2022.pdf](#)

PCN Assembly/Origin

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

Customers Also Interested in

Recommended Products



STPSC20065W

STMicroelectronics
DIODE SIL CARBIDE 650V 20A
D0247



STPSC20H065CT

STMicroelectronics
DIODE SCHOTTKY 650V 10A
TO220AB



STPSC20H065CW

STMicroelectronics
DIODE ARRAY SCHOTTKY 650V
TO247



STPSC406B-TR

STMicroelectronics
DIODE SIL CARBIDE 600V 4A DPAK



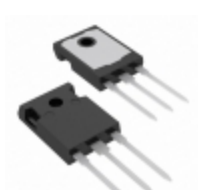
STPSC20H12CWY

STMicroelectronics
AUTOMOTIVE SIC DIODES



STPSC20H12GY-TR

STMicroelectronics
DIODE SIL CARB 1.2KV 20A D2PAK



STPSC20H12D

STMicroelectronics
DIODE ARRAY SCHOTTKY 1200V
TO220AC



STPSC40065CW

STMicroelectronics
DIODE SCHOTTKY 650V TO-247



STPSC20065WY

STMicroelectronics
DIODE SIL CARBIDE 650V 20A
D0247



STPSC4H065B-TR

STMicroelectronics
DIODE SIL CARBIDE 650V 4A DPAK



STPSC2H12B-TR1

STMicroelectronics
DIODE SIL CARBIDE 1.2KV 5A DPAK

STPSC2006CW

STMicroelectronics
DIODE ARRAY SCHOTTKY 600V
TO247



STPSC40H12CWL

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DIODE ARRAY SCHOTTKY 1200V
TO247



STPSC20H12CWL

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DIODE ARRAY SCHOTTKY 1200V
TO247



STPSC20065GY-TR

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DIODE SIL CARBIDE 650V 20A
D2PAK



STPSC20H12G-TR

STMicroelectronics
DIODE SIL CARB 1.2KV 20A D2PAK



STPSC2H12D

STMicroelectronics
DIODE SIL CARB 1.2KV 2A TO220AC



STPSC20065DY

STMicroelectronics
DIODE SIL CARB 650V 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.



Your Faithful Supply Chain Partner -



Efficient Supply
Management



Cost-Saving
Procurement



Fast Sourcing &
Delivery

Contact us if you have any questions.



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Certifications & Memberships



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