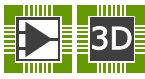



# STPS745D

Manufacturer Part Number	<b>STPS745D</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STPS745D
ECAD Model	 PCB Symbol, Footprint & 3D Mode
Parts Description	DIODE SCHOTTKY 45V 7.5A TO220AC
Package	TO-220-2
Data sheet	<b>STPS745.pdf</b>
RoHs Status	 ROHS3 Compliant


[Get a Quote](#)

STPS745D - STMicroelectronics. New Original in Stock. Download Linear Technology STPS745D datasheet/specifications on AllelcoElec.com.  
 Request a quote for STPS745D, please send us email: [info@allelco.com](mailto:info@allelco.com)





## Specifications

STPS745D Tech Specifications  
 STPS745D - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package	Tube
Voltage - Forward (Vf) (Max) @ If	840 mV @ 15 A	Operating Temperature - Junction	175°C (Max)
Voltage - DC Reverse (Vr) (Max)	45 V	Mounting Type	Through Hole
Technology	Schottky	Current - Reverse Leakage @ Vr	100 µA @ 45 V
Supplier Device Package	TO-220AC	Current - Average Rectified (Io)	7.5A
Speed	Fast Recovery =< 500ns, > 200mA (Io)	Capacitance @ Vr, F	-
Series	-	Base Product Number	STPS745
Package / Case	TO-220-2		

## Parts with Similar Specifications


The three parts on the right have similar specifications to STMicroelectronics STPS745D

Product Attribute	 NO PICTURE			
Part Number	STPS745D	STPS745G	STPS6M100DEE-TR	STPS745FP
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Capacitance @ Vr, F	-	-	-	-
Voltage - DC Reverse (Vr) (Max)	45 V	45 V	100 V	45 V
Speed	Fast Recovery =< 500ns, > 200mA (Io)	Fast Recovery =< 500ns, > 200mA (Io)	Fast Recovery =< 500ns, > 200mA (Io)	Fast Recovery =< 500ns, > 200mA (Io)
Voltage - Forward (Vf) (Max) @ If	840 mV @ 15 A	840 mV @ 15 A	780 mV @ 6 A	840 mV @ 15 A
Series	-	-	-	-
Current - Reverse Leakage @ Vr	100 µA @ 45 V	100 µA @ 45 V	30 µA @ 100 V	100 µA @ 45 V
Package	Tube	Tube	Tape & Reel (TR)	Tube
Current - Average Rectified (Io)	7.5A	7.5A	6A	7.5A
Base Product Number	STPS745	STPS7	STPS6	STPS745
Technology	Schottky	Schottky	Schottky	Schottky
Operating Temperature - Junction	175°C (Max)	175°C (Max)	150°C (Max)	175°C (Max)
Package / Case	TO-220-2	TO-263-3, D <sup>2</sup> Pak (2 Leads + Tab), TO-263AB	8-PowerTDFN	TO-220-2 Full Pack
Supplier Device Package	TO-220AC	D2PAK	PowerFlat™ (3.3x3.3)	TO-220FPAC
Mounting Type	Through Hole	Surface Mount	Surface Mount	Through Hole


## STPS745D Datasheet PDF

Download STPS745D pdf datasheets and STMicroelectronics documentation for STPS745D - STMicroelectronics.


### Datasheets


[STPS745.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



STPS660CBTR

STMicroelectronics



STPS6M100DEE-TR

STMicroelectronics  
DIODE SCHOTTKY 100V 6A  
POWERFLAT



STPS640CBY-TR

STMicroelectronics  
DIODE ARRAY SCHOTTKY 40V 3A  
DPAK

STPS6M100DEE

STMicroelectronics



STPS745FP

STMicroelectronics  
DIODE SCHOTT 45V 7.5A  
TO220FPAC



STPS660CB-TR

STMicroelectronics  
DIODE ARRAY SCHOTTKY 60V 3A  
DPAK

STPS745

STMicroelectronics



STPS80L15CY

STMicroelectronics  
DIODE ARRAY SCHOTTKY 15V  
MAX247

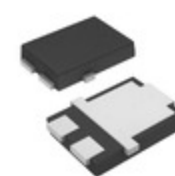


STPS745G-TR

STMicroelectronics  
DIODE SCHOTTKY 45V 7.5A D2PAK

STPS745G

STMicroelectronics  
DIODE SCHOTTKY 45V 7.5A D2PAK



STPS640CSFY

STMicroelectronics  
DIODE SCHOTTKY 40V 3A TO277A



STPS80150CW

STMicroelectronics  
DIODE ARRAY SCHOTTKY 150V  
TO247

STPS80170CW

STMicroelectronics  
DIODE ARRAY SCHOTTKY 170V  
TO247



STPS80H100CY

STMicroelectronics  
DIODE ARRAY SCHOTTKY 100V  
MAX247



STPS640CB-TR

STMicroelectronics  
DIODE ARRAY SCHOTTKY 40V 3A  
DPAK

STPS640CT

STMicroelectronics  
DIODE ARRAY SCHOTTKY 40V  
TO220AB



STPS640CBTR

STMicroelectronics



STPS80H100TV

STMicroelectronics  
DIODE MODULE 100V 40A ISOTOP

## 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.

 Phone  
 +00852 9146 4856  
 Email  
 info@allelco.com

## Certifications & Memberships



View More

### Contact us

Address: Flat/Rm C 13/F Harvard Commercial Building 105-111 Thomson Road, Wan Chai, Hong Kong

Phone: +00852 9146 4856

Fax: +00852 3010 8510

Email: info@Allelco.com