



Image may be representation.  
See specifications for product details.



## STTH102AY

Manufacturer Part Number	<b>STTH102AY</b>
Manufacturer	<b>STMicroelectronics</b>
Allelco Part Number	32D-STTH102AY
ECAD Model	PCB Symbol, Footprint & 3D Model
Parts Description	DIODE GEN PURP 200V 1A SMA
Package	DO-214AC, SMA
Data sheet	<b>STTH102A-Y.pdf</b>
RoHs Status	<b>ROHS3 Compliant</b>

**Get a Quote**

STTH102AY - STMicroelectronics.New Original in Stock. Download Linear Technology STTH102AY datasheet/specifications on AllelcoElec.com.  
Request a quote for STTH102AY, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

STTH102AY Tech Specifications  
STTH102AY - STMicroelectronics technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	STMicroelectronics	Package / Case	DO-214AC, SMA
Voltage - Forward (Vf) (Max) @ If	970 mV @ 1 A	Package	Tape & Reel (TR)
Voltage - DC Reverse (Vr) (Max)	200 V	Operating Temperature - Junction	-40°C ~ 175°C
Technology	Standard	Mounting Type	Surface Mount
Supplier Device Package	SMA (DO-214AC)	Current - Reverse Leakage @ Vr	1 µA @ 200 V
Speed	Fast Recovery =< 500ns, > 200mA (Io)	Current - Average Rectified (Io)	1A
Series	Q Automotive	Capacitance @ Vr, F	-
Reverse Recovery Time (trr)	20 ns	Base Product Number	STTH102

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STTH102AY

Product Attribute				
Part Number	STTH102AY	STTH1004SB-TR	STTH108A	STTH102RL
Manufacturer	STMicroelectronics	STMicroelectronics	STMicroelectronics	STMicroelectronics
Supplier Device Package	SMA (DO-214AC)	TO-220FPAC	SMA (DO-214AC)	DO-41
Current - Average Rectified (Io)	1A	10A	1A	1A
Capacitance @ Vr, F	-	-	-	-
Package / Case	DO-214AC, SMA	TO-220-2 Full Pack	DO-214AC, SMA	DO-204AL, DO-41, Axial
Base Product Number	STTH102	STTH1004	STTH108	STTH102
Speed	Fast Recovery =< 500ns, > 200mA (Io)	Fast Recovery =< 500ns, > 200mA (Io)	Fast Recovery =< 500ns, > 200mA (Io)	Fast Recovery =< 500ns, > 200mA (Io)
Operating Temperature - Junction	-40°C ~ 175°C	175°C	175°C (Max)	175°C (Max)
Technology	Standard	Standard	Standard	Standard
Series	Q Automotive	-	-	-
Voltage - DC Reverse (Vr) (Max)	200 V	400 V	800 V	200 V
Current - Reverse Leakage @ Vr	1 µA @ 200 V	1 µA @ 400 V	5 µA @ 800 V	1 µA @ 200 V
Mounting Type	Surface Mount	Through Hole	Surface Mount	Through Hole
Reverse Recovery Time (trr)	20 ns	140 ns	75 ns	20 ns
Voltage - Forward (Vf) (Max) @ If	970 mV @ 1 A	1.7 V @ 10 A	1.65 V @ 1 A	970 mV @ 1 A
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)

### STTH102AY Datasheet PDF

Download STTH102AY pdf datasheets and STMicroelectronics documentation for STTH102AY - STMicroelectronics.

#### Datasheets

[STTH102A-Y.pdf](#)

#### PCN Packaging

[Box Label Chg 28/Jul/2016.pdf](#)

#### PCN Assembly/Origin

[Mult Dev Site Chg 14/Feb/2020.pdf](#)

### Customers Also Interested in

#### Recommended Products



**STTH1004SB-TR**  
STMicroelectronics  
DISCRETE

**STTH108A**  
STMicroelectronics  
DIODE GEN PURP 800V 1A SMA

**STTH100W06CW**  
STMicroelectronics  
DIODE ARRAY GP 600V 50A TO247

**STTH10LCD06CFP**  
STMicroelectronics  
DIODE ARRAY GP 600V 5A TO220FP

**STTH102RL**  
STMicroelectronics  
DIODE GEN PURP 200V 1A DO41

**STTH1004FP**  
STMicroelectronics  
DISCRETE



**STTH108**  
STMicroelectronics  
DIODE GEN PURP 800V 1A DO41

**STTH100W04CW**  
STMicroelectronics  
DIODE ARRAY GP 400V 50A TO247

**STTH10LCD06CG-TR**  
STMicroelectronics  
DIODE ARRAY GP 600V 5A D2PAK

**STTH1004SG-TR**  
STMicroelectronics

**STTH106A**  
STMicroelectronics

**STTH1004SFP**  
STMicroelectronics



**STTH102**  
STMicroelectronics  
DIODE GEN PURP 200V 1A DO41

**STTH1008DTI**  
STMicroelectronics  
DIODE HYPER 800V 10A TO-220AC

**STTH10LCD06CT**  
STMicroelectronics  
DIODE ARRAY GP 600V 5A TO220AB

**STTH102A**  
STMicroelectronics  
DIODE GEN PURP 200V 1A SMA

**STTH102U**  
STMicroelectronics

**STTH1004SFP3**  
STMicroelectronics

## 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

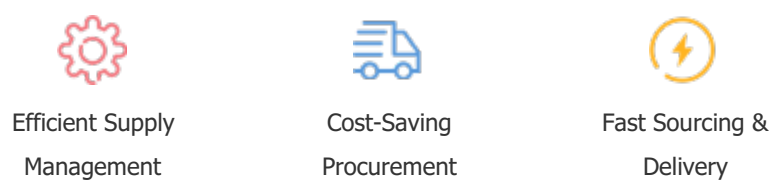
Note: The above table is for reference only. There may have some data bias for the uncontrollable factors.  
Contact us if you have any questions.

## 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 -



Contact us if you have any questions.



## Certifications & Memberships



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