

Image may be representation.  
See specifications for product details.



## SI4542DY

Manufacturer Part Number	<b>SI4542DY</b>
Manufacturer	<b>onsemi</b>
Allelco Part Number	32D-SI4542DY
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N/P-CH 30V 6A 8SOIC
Package	8-SOIC (0.154", 3.90mm Width)
Data sheet	<b>SI4542DY.pdf</b>
RoHs Status	ROHS3 Compliant

**Get a Quote**

SI4542DY - onsemi.New Original in Stock. Download Linear Technology SI4542DY datasheet/specifications on AllelcoElec.com.  
Request a quote for SI4542DY, please send us email: [info@allelco.com](mailto:info@allelco.com)

### Specifications

SI4542DY Tech Specifications  
SI4542DY - onsemi technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	onsemi	Operating Temperature	-55°C ~ 175°C (TJ)
Vgs(th) (Max) @ Id	3V @ 250µA	Mounting Type	Surface Mount
Technology	MOSFET (Metal Oxide)	Input Capacitance (Ciss) (Max) @ Vds	830pF @ 15V
Supplier Device Package	8-SOIC	Gate Charge (Qg) (Max) @ Vgs	13nC @ 5V
Series	PowerTrench®	FET Feature	-
Rds On (Max) @ Id, Vgs	28mOhm @ 6A, 10V	Drain to Source Voltage (Vdss)	30V
Power - Max	1W	Current - Continuous Drain (Id) @ 25°C	6A
Package / Case	8-SOIC (0.154", 3.90mm Width)	Configuration	N and P-Channel
Package	Tape & Reel (TR)	Base Product Number	SI4542

### Parts with Similar Specifications

The three parts on the right have similar specifications to onsemi SI4542DY

Product Attribute				
Part Number	SI4542DY	SI4554DY-T1-GE3	SI4539ADY-T1-E3	SI4539ADY-T1-GE3
Manufacturer	onsemi	Vishay Siliconix	Vishay Siliconix	Vishay Siliconix
Series	PowerTrench®	TrenchFET®	TrenchFET®	TrenchFET®
Current - Continuous Drain (Id) @ 25°C	6A	8A	4.4A, 3.7A	4.4A, 3.7A
Power - Max	1W	3.1W, 3.2W	1.1W	1.1W
FET Feature	-	Logic Level Gate	Logic Level Gate	Logic Level Gate
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Input Capacitance (Ciss) (Max) @ Vds	830pF @ 15V	690pF @ 20V	-	-
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Operating Temperature	-55°C ~ 175°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Package / Case	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)	8-SOIC (0.154", 3.90mm Width)
Rds On (Max) @ Id, Vgs	28mOhm @ 6A, 10V	24mOhm @ 6.8A, 10V	36mOhm @ 5.9A, 10V	36mOhm @ 5.9A, 10V
Vgs(th) (Max) @ Id	3V @ 250µA	2.2V @ 250µA	1V @ 250µA (Min)	1V @ 250µA (Min)
Configuration	N and P-Channel	N and P-Channel	N and P-Channel	N and P-Channel
Gate Charge (Qg) (Max) @ Vgs	13nC @ 5V	20nC @ 10V	20nC @ 10V	20nC @ 10V
Supplier Device Package	8-SOIC	8-SOIC	8-SOIC	8-SOIC
Base Product Number	SI4542	SI4554	SI4539	SI4539
Drain to Source Voltage (Vdss)	30V	40V	30V	30V

### SI4542DY Datasheet PDF

Download SI4542DY pdf datasheets and onsemi documentation for SI4542DY - onsemi.

#### Datasheets

SI4542DY.pdf

#### Environmental Information

onsemi REACH.pdf

onsemi RoHS.pdf

#### PCN Design/Specification

Logo 17/Aug/2017.pdf

Mold Compound 12/Dec/2007.pdf

#### PCN Packaging

PCN Obsolescence/ EOL



















Mult Dev EOL 17/Aug/2020.pdf

PCN Assembly/Origin

Korea Fab Site Add 3/Jan/2017.pdf

Customers Also Interested in

Recommended Products

					
<b>SI4554DY-T1-E3</b> Electro-Films (EFI) / Vishay	<b>SI4544DY-T1</b> Electro-Films (EFI) / Vishay	<b>SI4544DY</b> Electro-Films (EFI) / Vishay	<b>SI4554DY-T1-GE3</b> Vishay Siliconix MOSFET N/P-CH 40V 8A 8SO	<b>SI4542DY-T1</b> Electro-Films (EFI) / Vishay	<b>SI4539DY-T1</b> SILICONIX
					
<b>SI4539</b> SI	<b>SI4539ADY</b> Electro-Films (EFI) / Vishay	<b>SI4554DY</b> Electro-Films (EFI) / Vishay	<b>SI4539DY-T1-E3</b> Electro-Films (EFI) / Vishay	<b>SI4542DY MOS</b> Fairchild (onsemi)	<b>SI4539ADY-T1-E3</b> Vishay Siliconix MOSFET N/P-CH 30V 4.4A 8-SOIC
					
<b>SI4539ADY-T1</b> SILICONIX	<b>SI4539ADY-T1-GE3</b> Vishay Siliconix MOSFET N/P-CH 30V 4.4A 8-SOIC	<b>SI4539DY-T1-GE3</b> Electro-Films (EFI) / Vishay	<b>SI4544DY-T1-E3</b> Vishay Siliconix MOSFET N/P-CH 30V 8-SOIC	<b>SI4542</b> SI	<b>SI4542DY-T1-E3</b> Vishay Siliconix MOSFET N/P-CH 30V 8-SOIC

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
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Contact us if you have any questions.

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Certifications & Memberships



View More

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