

Image may be representation.
See specifications for product details.



SI4431BDY-T1-E3

Manufacturer Part Number	SI4431BDY-T1-E3
Manufacturer	Vishay / Siliconix
Allelco Part Number	32D-SI4431BDY-T1-E3
ECAD Model	PCB Symbol, Footprint & 3D Mode
Parts Description	MOSFET P-CH 30V 5.7A 8SO
Package	8-SOIC (0.154", 3.90mm Width)
Data sheet	SI4431BDY.pdf
RoHs Status	ROHS3 Compliant

Get a Quote

SI4431BDY-T1-E3 - Vishay Siliconix. New Original in Stock. Download Linear Technology SI4431BDY-T1-E3 datasheet/specifications on AllelcoElec.com. Request a quote for SI4431BDY-T1-E3, please send us email: info@allelco.com

Specifications

SI4431BDY-T1-E3 Tech Specifications
SI4431BDY-T1-E3 - Vishay Siliconix technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Vishay / Siliconix	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	3V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	±20V	Gate Charge (Qg) (Max) @ Vgs	20 nC @ 5 V
Technology	MOSFET (Metal Oxide)	FET Type	P-Channel
Supplier Device Package	8-SOIC	FET Feature	-
Series	TrenchFET®	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Rds On (Max) @ Id, Vgs	30mOhm @ 7.5A, 10V	Drain to Source Voltage (Vdss)	30 V
Power Dissipation (Max)	1.5W (Ta)	Current - Continuous Drain (Id) @ 25°C	5.7A (Ta)
Package / Case	8-SOIC (0.154", 3.90mm Width)	Base Product Number	SI4431
Package	Tape & Reel (TR)		

Parts with Similar Specifications

The three parts on the right have similar specifications to Vishay Siliconix SI4431BDY-T1-E3

Product Attribute				
Part Number	SI4431BDY-T1-E3	SI4431CDY-T1-E3	SI4431DY	SI4431CDY-T1-GE3
Manufacturer	Vishay Siliconix	Vishay Siliconix	Fairchild Semiconductor	Vishay Siliconix
Supplier Device Package	8-SOIC	8-SOIC	8-SOIC	8-SOIC
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)
Current - Continuous Drain (Id) @ 25°C	5.7A (Ta)	9A (Tc)	6.3A (Ta)	9A (Tc)
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Vgs (Max)	±20V	±20V	±20V	±20V
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	4.5V, 10V	4.5V, 10V
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)
Power Dissipation (Max)	1.5W (Ta)	4.2W (Tc)	1W (Ta)	2.5W (Ta), 4.2W (Tc)
FET Type	P-Channel	P-Channel	P-Channel	P-Channel
Rds On (Max) @ Id, Vgs	30mOhm @ 7.5A, 10V	32mOhm @ 7A, 10V	32mOhm @ 7A, 10V	32mOhm @ 7A, 10V
Drain to Source Voltage (Vdss)	30 V	30 V	30 V	30 V
Series	TrenchFET®	TrenchFET®	PowerTrench®	TrenchFET®
Vgs(th) (Max) @ Id	3V @ 250µA	2.5V @ 250µA	3V @ 250µA	2.5V @ 250µA
FET Feature	-	-	-	-
Gate Charge (Qg) (Max) @ Vgs	20 nC @ 5 V	38 nC @ 10 V	29 nC @ 10 V	38 nC @ 10 V
Base Product Number	SI4431	SI4431	-	SI4431
Package	Tape & Reel (TR)	Tape & Reel (TR)	Bulk	Tape & Reel (TR)
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount

SI4431BDY-T1-E3 Datasheet PDF

Download SI4431BDY-T1-E3 pdf datasheets and Vishay Siliconix documentation for SI4431BDY-T1-E3 - Vishay Siliconix.

Datasheets

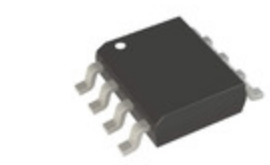
SI4431BDY.pdf

PCN Assembly/Origin

New Solder Plating Site 18/Apr/2023.pdf

Customers Also Interested in

Recommended Products



SI4431CDY-T1-E3

Vishay Siliconix
MOSFET P-CH 30V 9A 850



SI4431-B1-FMR

Silicon Labs
IC RF TXRX ISM<1GHZ 20VQFN



SI4431BDY-T1-E3-S

Electro-Films (EFI) / Vishay



SI4431ADY

Electro-Films (EFI) / Vishay



SI4431BDY-T1-E3

Electro-Films (EFI) / Vishay



SI4431-A0-FMR

Silicon Labs
+13 DBM SUB-GHZ TRANSMITTER



SI4431ADY-T1-GE3

Electro-Films (EFI) / Vishay



SI4431BDY

Electro-Films (EFI) / Vishay



SI4431BDY-T1-E3 MOS

Electro-Films (EFI) / Vishay



SI4431DY

Fairchild Semiconductor
P-CHANNEL MOSFET



SI4431BDY-T1-E3.

Electro-Films (EFI) / Vishay



SI4431ADY-T1-E3

Electro-Films (EFI) / Vishay



SI4431CDY-T1-GE3

Vishay Siliconix
MOSFET P-CH 30V 9A 850



SI4431ADY-T1

SI



SI4431B

Electro-Films (EFI) / Vishay



SI4431BDY-T1-GE3

Vishay Siliconix
MOSFET P-CH 30V 5.7A 850



SI4431-B0-FM

Silicon Power



SI4431BDY-T1

Electro-Films (EFI) / Vishay

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 Alleco 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@alleco.com

Certifications & Memberships



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