

Image may be representation.
See specifications for product details.



MIC4451YM-TR

Manufacturer Part Number	MIC4451YM-TR
Manufacturer	Microchip Technology
Allelco Part Number	32D-MIC4451YM-TR
ECAD Model	Request Free CAD Models
Parts Description	IC GATE DRVR LOW-SIDE 8SOIC
Package	8-SOIC (0.154", 3.90mm Width)
Data sheet	MIC4451, MIC4452.pdf
RoHs Status	ROHS3 Compliant

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MIC4451YM-TR - Microchip Technology. New Original in Stock. Download Linear Technology MIC4451YM-TR datasheet/specifications on AllelcoElec.com. Request a quote for MIC4451YM-TR, please send us email: info@allelco.com

Specifications

MIC4451YM-TR Tech Specifications
MIC4451YM-TR - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Mounting Type	Surface Mount
Voltage - Supply	4.5V ~ 18V	Logic Voltage - VIL, VIH	0.8V, 2.4V
Supplier Device Package	8-SOIC	Input Type	Inverting
Series	-	Gate Type	IGBT, N-Channel MOSFET
Rise / Fall Time (Typ)	20ns, 24ns	Driven Configuration	Low-Side
Package / Case	8-SOIC (0.154", 3.90mm Width)	Current - Peak Output (Source, Sink)	12A, 12A
Package	Tape & Reel (TR)	Channel Type	Single
Operating Temperature	-40°C ~ 85°C (TA)	Base Product Number	MIC4451
Number of Drivers	1		

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology MIC4451YM-TR

Product Attribute				
Part Number	MIC4451YM-TR	MIC4429CN	MIC4451YM	MIC4452BN
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Current - Peak Output (Source, Sink)	12A, 12A	6A, 6A	12A, 12A	12A, 12A
Driven Configuration	Low-Side	Low-Side	Low-Side	Low-Side
Channel Type	Single	Single	Single	Single
Mounting Type	Surface Mount	Through Hole	Surface Mount	Through Hole
Supplier Device Package	8-SOIC	8-PDIP	8-SOIC	8-PDIP
Package / Case	8-SOIC (0.154", 3.90mm Width)	8-DIP (0.300", 7.62mm)	8-SOIC (0.154", 3.90mm Width)	8-DIP (0.300", 7.62mm)
Gate Type	IGBT, N-Channel MOSFET	N-Channel, P-Channel MOSFET	IGBT, N-Channel MOSFET	IGBT, N-Channel MOSFET
Rise / Fall Time (Typ)	20ns, 24ns	12ns, 13ns	20ns, 24ns	20ns, 24ns
Logic Voltage - VIL, VIH	0.8V, 2.4V	0.8V, 2.4V	0.8V, 2.4V	0.8V, 2.4V
Number of Drivers	1	1	1	1
Input Type	Inverting	Inverting	Inverting	Non-Inverting
Operating Temperature	-40°C ~ 85°C (TA)	0°C ~ 150°C (TJ)	-40°C ~ 85°C (TA)	-40°C ~ 85°C (TA)
Base Product Number	MIC4451	MIC4429	MIC4451	MIC4452
Series	-	-	-	-
Voltage - Supply	4.5V ~ 18V	4.5V ~ 18V	4.5V ~ 18V	4.5V ~ 18V
Package	Tape & Reel (TR)	Tube	Tube	Tube

MIC4451YM-TR Datasheet PDF

Download MIC4451YM-TR pdf datasheets and Microchip Technology documentation for MIC4451YM-TR - Microchip Technology.

PCN Packaging

- Packing Changes 10/Oct/2016.pdf
- Mult Devices 17/Nov/2017.pdf

PCN Assembly/Origin

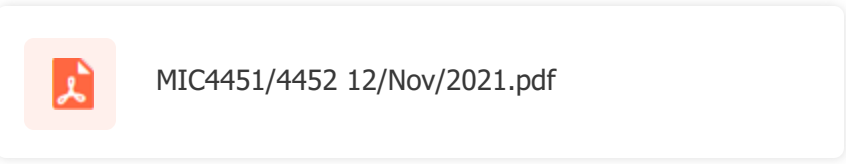
- Manufacturing Change 26/Mar/2021.pdf

PCN Part Number

- Micrel to Microchip PN Changes 7/Oct/2015.pdf


HTML Datasheet

- MIC4451, MIC4452.pdf



Customers Also Interested in

Recommended Products

 MIC4429CN Microchip Technology IC GATE DRVR LOW-SIDE 8DIP	 MIC4451YM Microchip Technology IC GATE DRVR LOW-SIDE 8SOIC	 MIC4451ZTTRPBF Micrel / Microchip Technology	 MIC4452BN Microchip Technology IC GATE DRVR LOW-SIDE 8DIP	 MIC4452YM Microchip Technology IC GATE DRVR LOW-SIDE 8SOIC	 MIC4452BM Microchip Technology IC GATE DRVR LOW-SIDE 8SOIC
 MIC4429CM Microchip Technology IC GATE DRVR LOW-SIDE 8SOIC	 MIC4429YN Microchip Technology IC GATE DRVR LOW-SIDE 8DIP	 MIC4451CT Microchip Technology IC GATE DRVR LOW-SIDE TO220-5	 MIC4452CT Microchip Technology IC GATE DRVR LOW-SIDE TO220-5	 MIC4451BM Microchip Technology IC GATE DRVR LOW-SIDE 8SOIC	 MIC4451YN Microchip Technology IC GATE DRVR LOW-SIDE 8DIP
 MIC4452YM-TR Microchip Technology IC GATE DRVR LOW-SIDE 8SOIC	 MIC4451ZT Microchip Technology IC GATE DRVR LOW-SIDE TO220-5	 MIC4452YMMPXH6250A Freescale / NXP Semiconductors	 MIC4429ZM Microchip Technology IC GATE DRVR LOW-SIDE 8SOIC	 MIC4429YMM Microchip Technology IC GATE DRVR LOW-SIDE 8MSOP	 MIC4429ZT Microchip Technology IC GATE DRVR LOW-SIDE TO220-5

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
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Certifications & Memberships









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