



MCP87050T-U/MF

Manufacturer Part Number	MCP87050T-U/MF
Manufacturer	Microchip Technology
Allelco Part Number	32D-MCP87050T-U/MF
ECAD Model	Request Free CAD Models
Parts Description	MOSFET N-CH 25V 100A 8PDFN
Package	8-PowerTDFN
Data sheet	MCP87050T-U/MF.pdf
RoHs Status	ROHS3 Compliant



Get a Quote

MCP87050T-U/MF - Microchip Technology. New Original in Stock. Download Linear Technology MCP87050T-U/MF datasheet/specifications on AllelcoElec.com.
Request a quote for MCP87050T-U/MF, please send us email: info@allelco.com

Specifications

MCP87050T-U/MF Tech Specifications

MCP87050T-U/MF - Microchip Technology technical specifications, attributes, parameters

Product Attribute	Attribute Value	Product Attribute	Attribute Value
Manufacturer	Microchip Technology	Operating Temperature	-55°C ~ 150°C (TJ)
Vgs(th) (Max) @ Id	1.6V @ 250µA	Mounting Type	Surface Mount
Vgs (Max)	+10V, -8V	Input Capacitance (Ciss) (Max) @ Vds	1040 pF @ 12.5 V
Technology	MOSFET (Metal Oxide)	Gate Charge (Qg) (Max) @ Vgs	15 nC @ 4.5 V
Supplier Device Package	8-PDFN (5x6)	FET Type	N-Channel
Series	-	FET Feature	-
Rds On (Max) @ Id, Vgs	5mOhm @ 20A, 10V	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Power Dissipation (Max)	2.2W (Ta)	Drain to Source Voltage (Vdss)	25 V
Package / Case	8-PowerTDFN	Current - Continuous Drain (Id) @ 25°C	100A (Tc)
Package	Tape & Reel (TR)	Base Product Number	MCP87050

Parts with Similar Specifications

The three parts on the right have similar specifications to Microchip Technology MCP87050T-U/MF

Product Attribute	NO PICTURE			
Part Number	MCP87050T-U/MF	MCP87022T-U/MF	MCP87130T-U/MF	MCP87090T-U/LC
Manufacturer	Microchip Technology	Microchip Technology	Microchip Technology	Microchip Technology
Supplier Device Package	8-PDFN (5x6)	8-PDFN (5x6)	8-PDFN (5x6)	8-PDFN (3.3x3.3)
Vgs(th) (Max) @ Id	1.6V @ 250µA	1.6V @ 250µA	1.7V @ 250µA	1.7V @ 250µA
Drain to Source Voltage (Vdss)	25 V	25 V	25 V	25 V
FET Feature	-	-	-	-
Base Product Number	MCP87050	MCP87022	MCP87130	MCP87090
Current - Continuous Drain (Id) @ 25°C	100A (Tc)	100A (Tc)	43A (Tc)	48A (Tc)
Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V	4.5V, 10V	3.3V, 10V	4.5V, 10V
Rds On (Max) @ Id, Vgs	5mOhm @ 20A, 10V	2.3mOhm @ 25A, 10V	13.5mOhm @ 10A, 10V	10.5mOhm @ 10V
FET Type	N-Channel	N-Channel	N-Channel	N-Channel
Power Dissipation (Max)	2.2W (Ta)	2.2W (Ta)	2.1W (Ta)	1.8W (Ta)
Package / Case	8-PowerTDFN	8-PowerTDFN	8-PowerTDFN	8-PowerTDFN
Mounting Type	Surface Mount	Surface Mount	Surface Mount	Surface Mount
Gate Charge (Qg) (Max) @ Vgs	15 nC @ 4.5 V	29 nC @ 4.5 V	8 nC @ 4.5 V	10 nC @ 4.5 V
Input Capacitance (Ciss) (Max) @ Vds	1040 pF @ 12.5 V	2310 pF @ 12.5 V	400 pF @ 12.5 V	580 pF @ 12.5 V
Vgs (Max)	+10V, -8V	+10V, -8V	+10V, -8V	+10V, -8V
Package	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)	Tape & Reel (TR)
Series	-	-	-	-
Technology	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)	MOSFET (Metal Oxide)
Operating Temperature	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)	-55°C ~ 150°C (TJ)

MCP87050T-U/MF Datasheet PDF

Download MCP87050T-U/MF pdf datasheets and Microchip Technology documentation for MCP87050T-U/MF - Microchip Technology.

PCN Packaging

Label and Packing Changes 23/Sep/2015.pdf

Packing Changes 10/Oct/2016.pdf

Environmental Information

Microchip CA Prop65.pdf















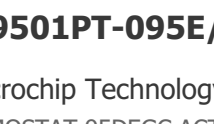

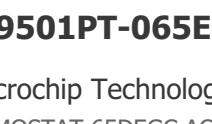



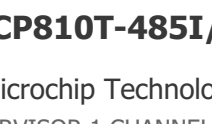
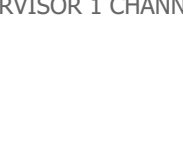














Microchip REACH.pdf

Microchip RoHS.pdf

PCN Obsolescence/ EOL

Customers Also Interested in

Recommended Products

  MCP860SRVR50D4 Freescale / NXP Semiconductors	  MCP9501PT-115E/OT Microchip Technology THERMOSTAT 115DEG ACT LO SOT23-5	  MCP810T-460I/TT Microchip Technology IC SUPERVISOR 1 CHANNEL SOT23-3	  MCP810T-315I/TT Microchip Technology IC SUPERVISOR 1 CHANNEL SOT23-3	  MCP9501PT-125E/OT Microchip Technology THERMOSTAT 125DEG ACT LO SOT23-5	  MCP8306SCVMABDCA Freescale / NXP Semiconductors
  MCP87022T-U/MF Microchip Technology MOSFET N-CH 25V 100A 8PDFN	  MCP9501PT-095E/OT Microchip Technology THERMOSTAT 95DEGC ACT LO SOT23-5	  MCP9501PT-065E/OT Microchip Technology THERMOSTAT 65DEGC ACT LO SOT23-5	  MCP87130T-U/MF Microchip Technology MOSFET N-CH 25V 43A 8PDFN	  MCP810T-485I/TT Microchip Technology IC SUPERVISOR 1 CHANNEL SOT23-3	  MCP8247CVRTIEA Freescale / NXP Semiconductors
  MCP87090T-U/LC Microchip Technology MOSFET N-CH 25V 48A 8PDFN	  MCP87055T-U/LC Microchip Technology MOSFET N-CH 25V 60A 8PDFN	  MCP810T-450I/TT Microchip Technology IC SUPERVISOR 1 CHANNEL SOT23-3	  MCP87130T-U/LC Microchip Technology MOSFET N-CH 25V 43A 8PDFN	  MCP810T-475I/TT Microchip Technology IC SUPERVISOR 1 CHANNEL SOT23-3	  MCP8241LVR200D Freescale / NXP Semiconductors

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.



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 +00852 9146 4856
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Certifications & Memberships



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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