



### MCP14E8T-E/MF Information



For Reference Only

Part Number MCP14E8T-E/MF

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC MOSFET DRIVER 2A 8DFN-S

Package 8-VDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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# MCP14E8T-E/MF Specifications

Manufacturer Part NumberMCP14E8T-E/MFManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)PACKAGE8-VDFN Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeIndependentNumber of Drivers2Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInverting, Non-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)12ns, 15nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case8-VDFN Exposed PadSupplier Device Package8-DFN-S (6x5)			
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Package 8-VDFN Exposed Pad  Series - Driven Configuration Low-Side Channel Type Independent Number of Drivers 2 Gate Type IGBT, N-Channel, P-Channel MOSFET  Voltage - Supply 4.5 V ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 2A, 2A Input Type Inverting, Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 12ns, 15ns Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-DFN-S (6x5)	Manufacturer	Microchip Technology	
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Driven Configuration  Channel Type  Independent  Number of Drivers  2  Gate Type  IGBT, N-Channel, P-Channel MOSFET  Voltage - Supply  4.5 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Inverting, Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package	Package	8-VDFN Exposed Pad	
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Number of Drivers  Gate Type  IGBT, N-Channel, P-Channel MOSFET  Voltage - Supply  4.5 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Inverting, Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package	Driven Configuration	Low-Side	
Gate Type  IGBT, N-Channel, P-Channel MOSFET  Voltage - Supply  4.5 V ~ 18 V  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Inverting, Non-Inverting  High Side Voltage - Max (Bootstrap)  - Rise / Fall Time (Typ)  12ns, 15ns  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package	Channel Type	Independent	
Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Inverting, Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  12ns, 15ns  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VDFN Exposed Pad  Supplier Device Package	Number of Drivers	2	
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Mounting Type Surface Mount  Package / Case 8-VDFN Exposed Pad  Supplier Device Package 8-DFN-S (6x5)	Rise / Fall Time (Typ)	12ns, 15ns	
Package / Case 8-VDFN Exposed Pad Supplier Device Package 8-DFN-S (6x5)	Operating Temperature	-40°C ~ 150°C (TJ)	
Supplier Device Package 8-DFN-S (6x5)	Mounting Type	Surface Mount	
	Package / Case	8-VDFN Exposed Pad	
Report errors?	Supplier Device Package	8-DFN-S (6x5)	
		Report errors?	?

### MCP14E8T-E/MF Guarantees



#### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

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