



MIC4129YME Information



For Reference Only

Part Number MIC4129YME

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

DescriptionIC MOSFET DRIVER 6A INVERT 8SOIC**Package**8-SOIC (0.154", 3.90mm Width) Exposed Pad

For the pricing/inventory/lead time, please contact

us

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MIC4129YME Specifications

Manufacturer Part NumberMIC4129YMEManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage8-SOIC (0.154", 3.90mm Width) Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 20 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)12ns, 13ns		
Category Integrated Circuits (ICs) PMIC - Gate Drivers Package 8-SOIC (0.154", 3.90mm Width) Exposed Pad Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Inverting Integrated Circuits (ICs) PMIC - Gate Drivers - Rough County (0.154", 3.90mm Width) Exposed Pad 8-SOIC (0.154", 3.90mm Width) Exposed Pad 9-SOIC (0.154"	Manufacturer Part Number	MIC4129YME
Package 8-SOIC (0.154", 3.90mm Width) Exposed Pad Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 6A, 6A Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns	Manufacturer	Microchip Technology
Package 8-SOIC (0.154", 3.90mm Width) Exposed Pad Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 20 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 6A, 6A Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns	Category	Integrated Circuits (ICs)
Series - Low-Side Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 6A, 6A Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns		PMIC - Gate Drivers
Driven Configuration Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Low-Side Low-Side Low-Side Low-Side 1 1 1 1 1 1 1 1 1 1 1 1 1	Package	8-SOIC (0.154", 3.90mm Width) Exposed Pad
Channel Type Single Number of Drivers 1 Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Single N-Channel MOSFET 4.5 V ~ 20 V Inverting Inverting Inverting Inverting	Series	-
Number of Drivers Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns	Driven Configuration	Low-Side
Gate Type N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 20 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) N-Channel, P-Channel MOSFET 4.5 V ~ 20 V 0.8V, 2.4V 1.8V 1	Channel Type	Single
Voltage - Supply Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 4.5 V ~ 20 V 0.8V, 2.4V 6A, 6A Inverting - 12ns, 13ns	Number of Drivers	1
Logic Voltage - VIL, VIH Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns	Gate Type	N-Channel, P-Channel MOSFET
Current - Peak Output (Source, Sink) Input Type Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 12ns, 13ns	Voltage - Supply	4.5 V ~ 20 V
Input Type Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 12ns, 13ns	Logic Voltage - VIL, VIH	0.8V, 2.4V
High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) - 12ns, 13ns	Current - Peak Output (Source, Sink)	6A, 6A
Rise / Fall Time (Typ) 12ns, 13ns	Input Type	Inverting
	High Side Voltage - Max (Bootstrap)	-
	Rise / Fall Time (Typ)	12ns, 13ns
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C} \text{ (TJ)}$	Operating Temperature	-40°C ~ 125°C (TJ)
Mounting Type Surface Mount	Mounting Type	Surface Mount
Package / Case 8-SOIC (0.154", 3.90mm Width) Exposed Pad	Package / Case	8-SOIC (0.154", 3.90mm Width) Exposed Pad
Supplier Device Package 8-SOIC-EP	Supplier Device Package	8-SOIC-EP
Report errors?		Report errors?

MIC4129YME 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.

MIC4129YME Payment Methods



















MIC4129YME Shipping Methods













If you have any question about MIC4129YME, please do not hesitate to contact us!

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