



## **LM5109BMA Information**



For Reference Only

Part Number LM5109BMA

Manufacturer Texas Instruments

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC DVR HALF-BRIDGE 90V 1A 8-SOIC

**Package** 8-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

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## **LM5109BMA Specifications**

Manufacturer Part Number  Manufacturer  Texas Instruments  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-SOIC (0.154", 3.90mm Width)  Series  - Driven Configuration  Half-Bridge  Independent  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  Logic Voltage - VIL, VIH  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Logic Voltage - VIL, VID  15ns, 15ns  Operating Temperature  -40°C ~ 125°C (TJ)		
Category  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-SOIC (0.154", 3.90mm Width)  Series  - Driven Configuration  Half-Bridge Channel Type Independent  Number of Drivers  2  Gate Type N-Channel MOSFET  Voltage - Supply 8 V ~ 14 V  Logic Voltage - VIL, VIH 0.8V, 2.2V  Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ)  Operating Temperature  Integrated Circuits (ICs)  PMIC - Gate Drivers  8-SOIC (0.154", 3.90mm Width)  - Nather Series  - Non-Inverting  Independent  108V  1188V  1288	Manufacturer Part Number	LM5109BMA
Package 8-SOIC (0.154", 3.90mm Width)  Series - Driven Configuration Half-Bridge Channel Type Independent  Number of Drivers 2  Gate Type N-Channel MOSFET  Voltage - Supply 8 V ~ 14 V  Logic Voltage - VIL, VIH 0.8V, 2.2V  Current - Peak Output (Source, Sink) 1A, 1A  Input Type Non-Inverting  High Side Voltage - Max (Bootstrap) 108V  Rise / Fall Time (Typ) 15ns, 15ns  Operating Temperature -40°C ~ 125°C (TJ)	Manufacturer	Texas Instruments
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Series - Driven Configuration Half-Bridge Channel Type Independent Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 8 V ~ 14 V Logic Voltage - VIL, VIH 0.8V, 2.2V Current - Peak Output (Source, Sink) 1A, 1A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 108V Rise / Fall Time (Typ) 15ns, 15ns Operating Temperature - 40°C ~ 125°C (TJ)		PMIC - Gate Drivers
Driven Configuration  Channel Type  Independent  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Half-Bridge  Independent  108V  14  Non-Inverting  108V  15ns, 15ns  -40°C ~ 125°C (TJ)	Package	8-SOIC (0.154", 3.90mm Width)
Channel Type  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  8 V ~ 14 V  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Independent  108V  N-Channel MOSFET  No-Channel MOSFET  No-Channel MOSFET  No-Channel MOSFET  108V	Series	-
Number of Drivers  Gate Type  N-Channel MOSFET  Voltage - Supply  8 V ~ 14 V  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  2  N-Channel MOSFET  N-Channel MOSFET  8 V ~ 14 V  1.8 V  1.9 Logic Voltage - VIL, VIH  1.0 Logic Vol	Driven Configuration	Half-Bridge
Gate TypeN-Channel MOSFETVoltage - Supply $8 \text{ V} \sim 14 \text{ V}$ Logic Voltage - VIL, VIH $0.8\text{V}, 2.2\text{V}$ Current - Peak Output (Source, Sink) $1\text{A}, 1\text{A}$ Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap) $108\text{V}$ Rise / Fall Time (Typ) $15\text{ns}, 15\text{ns}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)	Channel Type	Independent
Voltage - Supply  8 V ~ 14 V  Logic Voltage - VIL, VIH  0.8V, 2.2V  Current - Peak Output (Source, Sink)  1A, 1A  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  15ns, 15ns  Operating Temperature  40°C ~ 125°C (TJ)	Number of Drivers	2
Logic Voltage - VIL, VIH0.8V, 2.2VCurrent - Peak Output (Source, Sink)1A, 1AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)108VRise / Fall Time (Typ)15ns, 15nsOperating Temperature-40°C ~ 125°C (TJ)	Gate Type	N-Channel MOSFET
Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  1A, 1A  Non-Inverting  108V  15ns, 15ns  -40°C ~ 125°C (TJ)	Voltage - Supply	8 V ~ 14 V
Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  15ns, 15ns  Operating Temperature  -40°C ~ 125°C (TJ)	Logic Voltage - VIL, VIH	0.8V, 2.2V
High Side Voltage - Max (Bootstrap) $108V$ Rise / Fall Time (Typ) $15ns, 15ns$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)	Current - Peak Output (Source, Sink)	1A, 1A
Rise / Fall Time (Typ) 15ns, 15ns Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)	Input Type	Non-Inverting
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C} \text{ (TJ)}$	High Side Voltage - Max (Bootstrap)	108V
1 0 1	Rise / Fall Time (Typ)	15ns, 15ns
2	Operating Temperature	-40°C ~ 125°C (TJ)
Mounting Type Surface Mount	Mounting Type	Surface Mount
Package / Case 8-SOIC (0.154", 3.90mm Width)	Package / Case	8-SOIC (0.154", 3.90mm Width)
Supplier Device Package 8-SOIC	Supplier Device Package	8-SOIC
Report errors?		Report errors?

#### LM5109BMA Guarantees



#### **Quality Guarantees**

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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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## LM5109BMA Shipping Methods













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