



## **MAX4429ESA-T Information**



For Reference Only

Part Number MAX4429ESA-T
Manufacturer Maxim Integrated
Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC MOSFET DRV SGL 6A HS 8-SOIC

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

For the pricing/inventory/lead time, please contact

us

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



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## **Certified Quality**

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









## **MAX4429ESA-T Specifications**

| Manufacturer Part NumberMAX4429ESA-TManufacturerMaxim IntegratedCategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage8-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 25nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SOIC |                                      |                               |
|--|--------------------------------------|-------------------------------|
| CategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage8-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 25nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SOIC   | Manufacturer Part Number             | MAX4429ESA-T                  |
| PackagePMIC - Gate DriversPackage8-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 25nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SOIC   | Manufacturer                         | Maxim Integrated              |
| Package8-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 25nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SOIC   | Category                             | Integrated Circuits (ICs)     |
| Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 25nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SOIC   |                                      | 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  Current - Peak Output (Source, Sink)  Input Type  Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package   | Package                              | 8-SOIC (0.154", 3.90mm Width) |
| Channel Type  Number of Drivers  1  Gate Type  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  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  25ns, 25ns  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package   | Series                               | -                             |
| Number of Drivers  Gate Type  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  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package  | Driven Configuration                 | Low-Side                      |
| Gate Type  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  High Side Voltage - Max (Bootstrap)  - Rise / Fall Time (Typ)  25ns, 25ns  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package   | 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)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package   | Number of Drivers                    | 1                             |
| Logic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 25nsOperating Temperature-40°C ~ 85°C (TA)Mounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)Supplier Device Package8-SOIC  | Gate Type                            | N-Channel, P-Channel MOSFET   |
| Current - Peak Output (Source, Sink)  Input Type  Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package   | Voltage - Supply                     | 4.5 V ~ 18 V                  |
| Input Type  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package  | Logic Voltage - VIL, VIH             | 0.8V, 2.4V                    |
| High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  25ns, 25ns  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package  | Current - Peak Output (Source, Sink) | 6A, 6A                        |
| Rise / Fall Time (Typ)  25ns, 25ns  Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package  8-SOIC   | Input Type                           | Inverting                     |
| Operating Temperature  -40°C ~ 85°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)  Supplier Device Package  8-SOIC   | High Side Voltage - Max (Bootstrap)  | -                             |
| Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SOIC  | Rise / Fall Time (Typ)               | 25ns, 25ns                    |
| Package / Case 8-SOIC (0.154", 3.90mm Width) Supplier Device Package 8-SOIC  | Operating Temperature                | -40°C ~ 85°C (TA)             |
| Supplier Device Package 8-SOIC   | Mounting Type                        | Surface Mount                 |
| 11   | Package / Case                       | 8-SOIC (0.154", 3.90mm Width) |
| Report errors?   | Supplier Device Package              | 8-SOIC                        |
|  |                                      | Report errors?                |

#### **MAX4429ESA-T 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.

# **MAX4429ESA-T Payment Methods**



















### **MAX4429ESA-T Shipping Methods**













If you have any question about MAX4429ESA-T, please do not hesitate to contact us!

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