

### **TC427COA Information**



For Reference Only

Part Number TC427COA

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC MOSFET DVR 1.5A DUAL HS 8SOIC

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



Request a Quote

### **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.









# **TC427COA Specifications**

Manufacturer Part Number  Manufacturer  Microchip Technology  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-SOIC (0.154", 3.90mm Width)  Series  - Driven Configuration  Low-Side  Channel Type  Independent  Number of Drivers  2  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  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  30ns, 30ns  Operating Temperature  0°C ~ 70°C (TA)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154" 3.90mm Width)	•	
Category  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-SOIC (0.154", 3.90mm Width)  Series  - Driven Configuration  Low-Side  Channel Type  Independent  Number of Drivers  2  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  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  0°C ~ 70°C (TA)  Mounting Type	Manufacturer Part Number	TC427COA
PACKAGE Package 8-SOIC (0.154", 3.90mm Width) Series - Driven Configuration Low-Side Channel Type Independent Number of Drivers 2 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 Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Mounting Type Surface Mount	Manufacturer	Microchip Technology
Package 8-SOIC (0.154", 3.90mm Width)  Series - Driven Configuration Low-Side Channel Type Independent Number of Drivers 2 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) 1.5A, 1.5A  Input Type Non-Inverting  High Side Voltage - Max (Bootstrap) -  Rise / Fall Time (Typ) 30ns, 30ns  Operating Temperature 0°C ~ 70°C (TA)  Mounting Type Surface Mount	Category	Integrated Circuits (ICs)
Series - Low-Side Channel Type Independent Number of Drivers 2 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) 1.5A, 1.5A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 30ns, 30ns Operating Temperature 0°C ~ 70°C (TA) Mounting Type Surface Mount		PMIC - Gate Drivers
Driven Configuration  Channel Type  Independent  Number of Drivers  2  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  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Mounting Type  Low-Side  Independent  N-Channel, P-Channel MOSFET  N-Channel MOSFET  N-Channel, P-Channel MOSFET  N-Channel, P-Channel MOSFET  N-Channel, P-Channel MOSFET  N-Channel, P-Channel MOSFET  Non-Inverting  Surface Mount  Surface Mount	Package	8-SOIC (0.154", 3.90mm Width)
Channel TypeIndependentNumber of Drivers2Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)30ns, 30nsOperating Temperature0°C ~ 70°C (TA)Mounting TypeSurface Mount	Series	-
Number of Drivers2Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)30ns, 30nsOperating Temperature0°C ~ 70°C (TA)Mounting TypeSurface Mount	Driven Configuration	Low-Side
Gate TypeN-Channel, P-Channel MOSFETVoltage - Supply $4.5 \text{ V} \sim 18 \text{ V}$ Logic Voltage - VIL, VIH $0.8\text{V}, 2.4\text{V}$ Current - Peak Output (Source, Sink) $1.5\text{A}, 1.5\text{A}$ Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ) $30\text{ns}, 30\text{ns}$ Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C}$ (TA)Mounting TypeSurface Mount	Channel Type	Independent
Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  O°C ~ 70°C (TA)  Mounting Type  4.5 V ~ 18 V  0.8V, 2.4V  1.5A, 1.5A  Non-Inverting  Oord ~ 70°C (TA)  Surface Mount	Number of Drivers	2
Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  O°C ~ 70°C (TA)  Mounting Type  Surface Mount	Gate Type	N-Channel, P-Channel MOSFET
Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Mounting Type  1.5A, 1.5A  Non-Inverting  - 30ns, 30ns  Overating Temperature  O°C ~ 70°C (TA)  Surface Mount	Voltage - Supply	4.5 V ~ 18 V
Input Type  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Mounting Type  Non-Inverting  -  30ns, 30ns  Operating Temperature  O°C ~ 70°C (TA)  Surface Mount	Logic Voltage - VIL, VIH	0.8V, 2.4V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  O°C ~ 70°C (TA)  Mounting Type  Surface Mount	Current - Peak Output (Source, Sink)	1.5A, 1.5A
Rise / Fall Time (Typ) $30ns, 30ns$ Operating Temperature $0^{\circ}C \sim 70^{\circ}C$ (TA)Mounting TypeSurface Mount	Input Type	Non-Inverting
Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C} \text{ (TA)}$ Mounting Type Surface Mount	High Side Voltage - Max (Bootstrap)	-
Mounting Type Surface Mount	Rise / Fall Time (Typ)	30ns, 30ns
0.71	Operating Temperature	0°C ~ 70°C (TA)
Package / Case 8-SOIC (0.154", 3.90mm Width)	Mounting Type	Surface Mount
The many case (0.13 + , 5.70 mm Width)	Package / Case	8-SOIC (0.154", 3.90mm Width)
Supplier Device Package 8-SOIC	Supplier Device Package	8-SOIC
Report errors?		Report errors?

### **TC427COA 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.

### **TC427COA Payment Methods**



















## **TC427COA Shipping Methods**













If you have any question about TC427COA, please do not hesitate to contact us!

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