

L6390D Information

www.helsene

For Reference Only

Part Number L6390D

Manufacturer STMicroelectronics

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description IC DRIVER HV HI/LOW SIDE 16SO **Package** 16-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.









L6390D Specifications

Manufacturer Part NumberL6390DManufacturerSTMicroelectronicsCategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage16-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationHalf-BridgeChannel TypeIndependentNumber of Drivers2Gate TypeIGBT, N-Channel MOSFETVoltage - Supply12.5 V ~ 20 VLogic Voltage - VIL, VIH1.1V, 1.9VCurrent - Peak Output (Source, Sink)290mA, 430mAInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)600VRise / Fall Time (Typ)75ns, 35nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface Mount		
Category Integrated Circuits (ICs) PMIC - Gate Drivers Package 16-SOIC (0.154", 3.90mm Width) Series - Driven Configuration Half-Bridge Channel Type Independent Number of Drivers 2 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 12.5 V ~ 20 V Logic Voltage - VIL, VIH 1.1V, 1.9V 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 16-SOIC (0.154", 3.90mm Width) Lage Width 1.1V, 1.9V 20 Voltage - Width 1.1V, 1.9V 20 Non-Inverting 600V 75ns, 35ns Operating Temperature	Manufacturer Part Number	L6390D
Package 16-SOIC (0.154", 3.90mm Width) Series - Driven Configuration Half-Bridge Channel Type Independent Number of Drivers 2 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 12.5 V ~ 20 V Logic Voltage - VIL, VIH 1.1V, 1.9V Current - Peak Output (Source, Sink) 290mA, 430mA Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 600V Rise / Fall Time (Typ) 75ns, 35ns Operating Temperature -40°C ~ 150°C (TJ)	Manufacturer	STMicroelectronics
Package 16-SOIC (0.154", 3.90mm Width) Series - Driven Configuration Half-Bridge Channel Type Independent Number of Drivers 2 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 12.5 V ~ 20 V Logic Voltage - VIL, VIH 1.1V, 1.9V Current - Peak Output (Source, Sink) 290mA, 430mA Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 600V Rise / Fall Time (Typ) 75ns, 35ns Operating Temperature -40°C ~ 150°C (TJ)	Category	Integrated Circuits (ICs)
Series Driven Configuration Half-Bridge Channel Type Independent Number of Drivers 2 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 12.5 V ~ 20 V Logic Voltage - VIL, VIH 1.1V, 1.9V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ)		PMIC - Gate Drivers
Driven Configuration Channel Type Independent Number of Drivers 2 Gate Type IGBT, N-Channel MOSFET Voltage - Supply Logic Voltage - VIL, VIH 1.1V, 1.9V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Half-Bridge Independent 1.1V, 0.9V 29 Non-Channel MOSFET 1.1V, 1.9V 290mA, 430mA 1.1V, 1.9V 75ns, 35ns 40°C ~ 150°C (TJ)	Package	16-SOIC (0.154", 3.90mm Width)
Channel Type Independent Number of Drivers 2 Gate Type IGBT, N-Channel MOSFET Voltage - Supply 12.5 V ~ 20 V Logic Voltage - VIL, VIH 1.1V, 1.9V Current - Peak Output (Source, Sink) 1nput Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Independent Independent Independent Independent 1.1V, 1.9V 1.1V, 1.	Series	-
Number of Drivers Gate Type IGBT, N-Channel MOSFET Voltage - Supply 12.5 V ~ 20 V Logic Voltage - VIL, VIH 1.1V, 1.9V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature 2 IGBT, N-Channel MOSFET 12.5 V ~ 20 V 1.1V, 1.9V 290mA, 430mA Non-Inverting 600V 75ns, 35ns -40°C ~ 150°C (TJ)	Driven Configuration	Half-Bridge
Gate TypeIGBT, N-Channel MOSFETVoltage - Supply $12.5 \text{ V} \sim 20 \text{ V}$ Logic Voltage - VIL, VIH $1.1 \text{V}, 1.9 \text{V}$ Current - Peak Output (Source, Sink) $290\text{mA}, 430\text{mA}$ Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap) 600V Rise / Fall Time (Typ) $75\text{ns}, 35\text{ns}$ Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)	Channel Type	Independent
Voltage - Supply $12.5 \text{ V} \sim 20 \text{ V}$ Logic Voltage - VIL, VIH $1.1 \text{V}, 1.9 \text{V}$ Current - Peak Output (Source, Sink) $290 \text{mA}, 430 \text{mA}$ Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 600V Rise / Fall Time (Typ) $75 \text{ns}, 35 \text{ns}$ Operating Temperature $-40 ^{\circ}\text{C} \sim 150 ^{\circ}\text{C} \text{ (TJ)}$	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 1.1V, 1.9V 290mA, 430mA Non-Inverting 600V 75ns, 35ns -40°C ~ 150°C (TJ)	Gate Type	IGBT, N-Channel MOSFET
Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature 290mA, 430mA Non-Inverting 600V 75ns, 35ns -40°C ~ 150°C (TJ)	Voltage - Supply	12.5 V ~ 20 V
Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 75ns, 35ns Operating Temperature -40°C ~ 150°C (TJ)	Logic Voltage - VIL, VIH	1.1V, 1.9V
High Side Voltage - Max (Bootstrap) $600V$ Rise / Fall Time (Typ) $75ns, 35ns$ Operating Temperature $-40^{\circ}C \sim 150^{\circ}C$ (TJ)	Current - Peak Output (Source, Sink)	290mA, 430mA
Rise / Fall Time (Typ) 75ns, 35ns Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C}$ (TJ)	Input Type	Non-Inverting
Operating Temperature $-40^{\circ}\text{C} \sim 150^{\circ}\text{C} \text{ (TJ)}$	High Side Voltage - Max (Bootstrap)	600V
	Rise / Fall Time (Typ)	75ns, 35ns
Mounting Type Surface Mount	Operating Temperature	-40°C ~ 150°C (TJ)
	Mounting Type	Surface Mount
Package / Case 16-SOIC (0.154", 3.90mm Width)	Package / Case	16-SOIC (0.154", 3.90mm Width)
Supplier Device Package 16-SO	Supplier Device Package	16-SO
Report errors?		Report errors?

L6390D 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.

L6390D Payment Methods



















L6390D Shipping Methods













If you have any question about L6390D, please do not hesitate to contact us!

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