



IXDD514D1 Information



For Reference Only

Part Number IXDD514D1

Manufacturer IXYS

Category Integrated Circuits (ICs)

PMIC - Gate Drivers

Description IC GATE DRIVER 14A LO SIDE 6-DFN

Package 6-VDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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



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IXDD514D1 Specifications

Manufacturer Part NumberIXDD514D1ManufacturerIXYSCategoryIntegrated Circuits (ICs)Package6-VDFN Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 30 VLogic Voltage - VIL, VIH1V, 2.5VCurrent - Peak Output (Source, Sink)14A, 14AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 22nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed PadSupplier Device Package6-DFN (4x5)		
Category Integrated Circuits (ICs) PMIC - Gate Drivers 6-VDFN Exposed Pad Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 30 V Logic Voltage - VIL, VIH 1V, 2.5V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) Operating Temperature Joyna Control Package Supplier Device Package 6-VDFN Exposed Pad Surface Mount Surface Mount Fackage / Case 6-VDFN Exposed Pad	Manufacturer Part Number	IXDD514D1
Package 6-VDFN Exposed Pad Series - Driven Configuration Low-Side Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 30 V Logic Voltage - VIL, VIH 1V, 2.5 V Current - Peak Output (Source, Sink) 14A, 14A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 25ns, 22ns Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package 6-DFN (4x5)	Manufacturer	IXYS
Package6-VDFN Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 30 VLogic Voltage - VIL, VIHIV, 2.5VCurrent - Peak Output (Source, Sink)14A, 14AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 22nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed PadSupplier Device Package6-DFN (4x5)	Category	Integrated Circuits (ICs)
Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 30 VLogic Voltage - VIL, VIH1V, 2.5VCurrent - Peak Output (Source, Sink)14A, 14AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 22nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed PadSupplier Device Package6-DFN (4x5)		PMIC - Gate Drivers
Driven Configuration Channel Type Single Number of Drivers 1 Gate Type IGBT, N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 30 V Logic Voltage - VIL, VIH 1V, 2.5V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package	Package	6-VDFN Exposed Pad
Channel Type Number of Drivers 1 Gate Type IGBT, N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 30 V Logic Voltage - VIL, VIH 1V, 2.5V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package	Series	-
Number of Drivers Gate Type IGBT, N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 30 V Logic Voltage - VIL, VIH 1V, 2.5V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case Supplier Device Package 6-DFN (4x5)	Driven Configuration	Low-Side
Gate Type IGBT, N-Channel, P-Channel MOSFET Voltage - Supply 4.5 V ~ 30 V Logic Voltage - VIL, VIH 1V, 2.5V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 25ns, 22ns Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package	Channel Type	Single
Voltage - Supply Logic Voltage - VIL, VIH 1V, 2.5V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package	Number of Drivers	1
Logic Voltage - VIL, VIH Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package	Gate Type	IGBT, 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 -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package 6-DFN (4x5)	Voltage - Supply	4.5 V ~ 30 V
Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package 6-DFN (4x5)	Logic Voltage - VIL, VIH	1V, 2.5V
High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 25ns, 22ns Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package 6-DFN (4x5)	Current - Peak Output (Source, Sink)	14A, 14A
Rise / Fall Time (Typ) 25ns, 22ns Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package 6-DFN (4x5)	Input Type	Non-Inverting
Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package 6-DFN (4x5)	High Side Voltage - Max (Bootstrap)	-
Mounting Type Surface Mount Package / Case 6-VDFN Exposed Pad Supplier Device Package 6-DFN (4x5)	Rise / Fall Time (Typ)	25ns, 22ns
Package / Case 6-VDFN Exposed Pad Supplier Device Package 6-DFN (4x5)	Operating Temperature	-55°C ~ 150°C (TJ)
Supplier Device Package 6-DFN (4x5)	Mounting Type	Surface Mount
	Package / Case	6-VDFN Exposed Pad
Report errors?	Supplier Device Package	6-DFN (4x5)
		Report errors?

IXDD514D1 Guarantees



Quality Guarantees

We provide 90 days warranty. *

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Service Guarantees

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IXDD514D1 Shipping Methods













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