



### IXDE509D1T/R Information

Heisener.com

Part Number IXDE509D1T/R

Manufacturer IXYS

Category Integrated Circuits (ICs)

**PMIC - Gate Drivers** 

**Description** IC GATE DRIVER 9A 6-DFN

Package 6-VDFN Exposed Pad

For the pricing/inventory/lead time, please contact

Website: https://www.heisener.com For Reference Only

E-mail: salesdept@heisener.com



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# IXDE509D1T/R Specifications

Manufacturer Part NumberIXDE509D1T/RManufacturerIXYSCategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage6-VDFN Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 30 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)9A, 9AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 23nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed PadSupplier Device Package6-DFN (4x5)		
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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 0.8V, 2.4V  Current - Peak Output (Source, Sink) 9A, 9A  Input Type Inverting  High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 25ns, 23ns  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, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)9A, 9AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 23nsOperating 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, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)9A, 9AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 23nsOperating 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  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  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  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  25ns, 23ns  Operating Temperature  -55°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  6-VDFN Exposed Pad  Supplier Device Package	Series	-
Number of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 30 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)9A, 9AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 23nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed PadSupplier Device Package6-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  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  25ns, 23ns  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  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  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, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)9A, 9AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)25ns, 23nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case6-VDFN Exposed PadSupplier Device Package6-DFN (4x5)	Gate Type	IGBT, N-Channel, P-Channel MOSFET
Current - Peak Output (Source, Sink)  Input Type  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 Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 25ns, 23ns 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	0.8V, 2.4V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  25ns, 23ns  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)	9A, 9A
Rise / Fall Time (Typ)  25ns, 23ns  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	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, 23ns
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 circus.		Report errors's

#### IXDE509D1T/R 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.

### IXDE509D1T/R Payment Methods



















# IXDE509D1T/R Shipping Methods













If you have any question about IXDE509D1T/R, please do not hesitate to contact us!

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