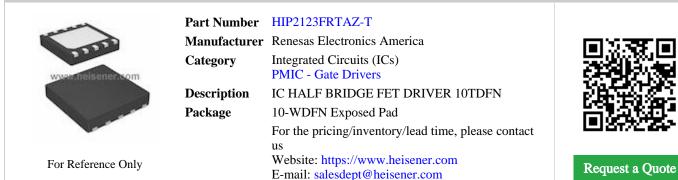


### HIP2123FRTAZ-T

#### **HIP2123FRTAZ-T Information**



## **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.



#### **HIP2123FRTAZ-T Specifications**

Manufacturer Part Number HIP2123FRTAZ-T   Manufacturer Renesas Electronics America   Category Integrated Circuits (ICs)   Package DVMC - Gate Drivers   Package 10-WDFN Exposed Pad   Series -   Driven Configuration Half-Bridge   Channel Type Independent   Number of Drivers 2   Gate Type N-Channel MOSFET   Voltage - Supply 8 V ~ 14 V   Logic Voltage - VIL, VIH 1.4V, 2.2V   Current - Peak Output (Source, Sink) 2A, 2A   Input Type Inverting   High Side Voltage - Max (Bootstrap) 1.4V   Rise / Fall Time (Typ) 10ns, 10ns   Operating Temperature -55°C ~ 150°C (TJ)   Mounting Type Surface Mount   Package / Case 10-WDFN Exposed Pad   Suppler Device Package 10-TDFN (4x4)		
CategoryIntegrated Circuits (ICs)PackagePMIC - Gate DriversPackage10-WDFN Exposed PadSeries-Driven ConfigurationHalf-BridgeChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VKise / Fall Time (Typ)0ns, 10nsOperating Temperature55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Manufacturer Part Number	HIP2123FRTAZ-T
MIC - Gate DriversPackage10-WDFN Exposed PadSeries-Driven ConfigurationHalf-BridgeChanel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Manufacturer	Renesas Electronics America
Package10-WDFN Exposed PadSeries-Driven ConfigurationHalf-BridgeChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)14VInput Type114VRigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)0ns, 10nsOperating TemperatureS5° ~ 150°C (TJ)Mounting Type0urd Output Scource)Shade (Case)0urd DVDFN Exposed PadSuppler Device Package10-WDFN Exposed PadSuppler Device Package10-WDFN Exposed Pad	Category	Integrated Circuits (ICs)
Series -   Driven Configuration Half-Bridge   Channel Type Independent   Number of Drivers 2   Gate Type N-Channel MOSFET   Voltage - Supply 8 V ~ 14 V   Logic Voltage - VIL, VIH 14V, 2.2V   Current - Peak Output (Source, Sink) 2A, 2A   Input Type Inverting   High Side Voltage - Max (Bootstrap) 114V   Rise / Fall Time (Typ) Jons, 10ns   Operating Temperature -55°C ~ 150°C (TJ)   Mounting Type Surface Mount   Package / Case 10-WDFN Exposed Pad   Supplier Device Package 10-TDFN (4x4)		PMIC - Gate Drivers
InterformHalf-BridgeDriven ConfigurationHalf-BridgeChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)0ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Package	10-WDFN Exposed Pad
Channel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)55°C ~ 150°C (TJ)Operating TemperatureSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Series	-
Number of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)0ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Driven Configuration	Half-Bridge
Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Channel Type	Independent
Voltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Number of Drivers	2
Logic Voltage - VIL, VIH1.4V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)0ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Gate Type	N-Channel MOSFET
Current - Peak Output (Source, Sink)2A, 2AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Voltage - Supply	8 V ~ 14 V
Input TypeInvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Logic Voltage - VIL, VIH	1.4V, 2.2V
High Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Current - Peak Output (Source, Sink)	2A, 2A
Rise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Input Type	Inverting
Operating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	High Side Voltage - Max (Bootstrap)	114V
Mounting TypeSurface MountPackage / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Rise / Fall Time (Typ)	10ns, 10ns
Package / Case10-WDFN Exposed PadSupplier Device Package10-TDFN (4x4)	Operating Temperature	-55°C ~ 150°C (TJ)
Supplier Device Package10-TDFN (4x4)	Mounting Type	Surface Mount
	Package / Case	10-WDFN Exposed Pad
Report errors?	Supplier Device Package	10-TDFN (4x4)
1		Report errors?

#### HIP2123FRTAZ-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 BUARANTEE

#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### HIP2123FRTAZ-T Payment Methods



#### HIP2123FRTAZ-T Shipping Methods



If you have any question about HIP2123FRTAZ-T, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com