



MCP1415T-E/OT Information



For Reference Only

Part Number MCP1415T-E/OT

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description IC MOSFET DVR 1.5A HS SOT23-5

Package SC-74A, SOT-753

For the pricing/inventory/lead time, please contact

us

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



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MCP1415T-E/OT Specifications

Manufacturer Part NumberMCP1415T-E/OTManufacturerMicrochip TechnologyCategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackageSC-74A, SOT-753Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)20ns, 20nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5		
CategoryIntegrated Circuits (ICs)PackageSC-74A, SOT-753Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)20ns, 20nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5	Manufacturer Part Number	MCP1415T-E/OT
Package SC-74A, SOT-753 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 ~ 18 V Logic Voltage - VIL, VIH 0.8V, 2.4V Current - Peak Output (Source, Sink) 1.5A, 1.5A Input Type Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 20ns, 20ns Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package SC-35	Manufacturer	Microchip Technology
PackageSC-74A, SOT-753Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)20ns, 20nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5	Category	Integrated Circuits (ICs)
Series-Driven ConfigurationLow-SideChannel TypeSingleNumber of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)20ns, 20nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5		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 ~ 18 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 -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package	Package	SC-74A, SOT-753
Channel Type Number of Drivers 1 Gate Type IGBT, 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 Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature 40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package	Series	-
Number of Drivers1Gate TypeIGBT, N-Channel, P-Channel MOSFETVoltage - Supply4.5 V ~ 18 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)20ns, 20nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5	Driven Configuration	Low-Side
Gate Type IGBT, 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 Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 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 -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package	Number of Drivers	1
Logic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 1.5AInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)20ns, 20nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5	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 -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package	Voltage - Supply	4.5 V ~ 18 V
Input Type Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 20ns, 20ns Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package SOT-23-5	Logic Voltage - VIL, VIH	0.8V, 2.4V
High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package	Current - Peak Output (Source, Sink)	1.5A, 1.5A
Rise / Fall Time (Typ) Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package SOT-23-5	Input Type	Inverting
Operating Temperature -40°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package SOT-23-5	High Side Voltage - Max (Bootstrap)	-
Mounting Type Surface Mount Package / Case SC-74A, SOT-753 Supplier Device Package SOT-23-5	Rise / Fall Time (Typ)	20ns, 20ns
Package / Case SC-74A, SOT-753 Supplier Device Package SOT-23-5	Operating Temperature	-40°C ~ 150°C (TJ)
Supplier Device Package SOT-23-5	Mounting Type	Surface Mount
	Package / Case	SC-74A, SOT-753
Report errors?	Supplier Device Package	SOT-23-5
		Report errors?

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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.

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MCP1415T-E/OT Shipping Methods













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