



## MCP1401T-E/OT Information



For Reference Only

Part Number MCP1401T-E/OT

Manufacturer Microchip Technology

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC MOSFET DRVR INV 500MA 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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## MCP1401T-E/OT Specifications

Manufacturer Part Number         MCP1401T-E/OT           Manufacturer         Microchip Technology           Category         Integrated Circuits (ICs)           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)         500mA, 500mA           Input Type         Inverting           High Side Voltage - Max (Bootstrap)         -           Rise / Fall Time (Typ)         19ns, 15ns           Operating Temperature         -40°C ~ 150°C (TJ)           Mounting Type         Surface Mount           Package / Case         SC-74A, SOT-753           Supplier Device Package         SOT-23-5		
CategoryIntegrated 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)500mA, 500mAInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)19ns, 15nsOperating Temperature-40°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / CaseSC-74A, SOT-753Supplier Device PackageSOT-23-5	Manufacturer Part Number	MCP1401T-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) 500mA, 500mA  Input Type Inverting  High Side Voltage - Max (Bootstrap) -  Rise / Fall Time (Typ) 19ns, 15ns  Operating Temperature -40°C ~ 150°C (TJ)  Mounting Type Surface Mount  Package / Case SC-74A, SOT-753  Supplier Device Package SC-73-5	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)500mA, 500mAInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)19ns, 15nsOperating 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)500mA, 500mAInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)19ns, 15nsOperating 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  I 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)500mA, 500mAInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)19ns, 15nsOperating 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)  19ns, 15ns  Operating Temperature  4.0°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)500mA, 500mAInput TypeInvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)19ns, 15nsOperating 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) 19ns, 15ns 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)  19ns, 15ns  Operating Temperature  -40°C ~ 150°C (TJ)  Mounting Type  Surface Mount  Package / Case  SC-74A, SOT-753  Supplier Device Package  SOT-23-5	Current - Peak Output (Source, Sink)	500mA, 500mA
Rise / Fall Time (Typ)  19ns, 15ns  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)	19ns, 15ns
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?

### MCP1401T-E/OT Guarantees



#### **Quality Guarantees**

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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.



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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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