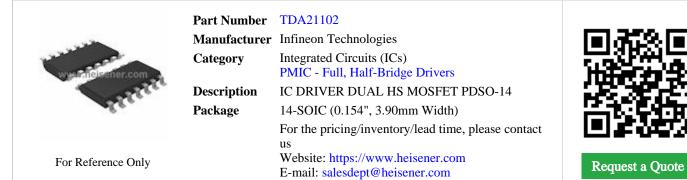


## **TDA21102**

#### **TDA21102 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.



### **TDA21102 Specifications**

Manufacturer Part NumberTDA21102ManufacturerInfineon TechnologiesCategoryIntegrated Circuits (ICs)PackagePMIC - Full, Half-Bridge DriversPackage14-SOIC (0.154", 3.90mm Width)SeriesCoreControl?Output ConfigurationHalf Bridge (2)ApplicationsDC-DC ConvertersInterfacePWMLoad TypeInductiveTechnologyPower MOSFETRds on (Typ)1.4 Ann LS, 1 Ohm HSCurrent - Output / Channel-Current - Output / Channel5V ~ 13.2 VVoltage - Supply0.8 V ~ 13.2 VVoltage - LoadSoto-Through, UVLOFeaturesBootstrap CircuitFautro FrodectionSoto-Through, UVLOMounting TypeSurface MountPackage / CaseI-SOSC (0.154", 3.90mm Width)Supplier Device PackageG-DSO-14Keptor terrorsSupplier Device Package	-	
CategoryIntegrated Circuits (ICs)PMIC - Full, Half-Bridge DriversPackage14-SOIC (0.154", 3.90mm Width)SeriesCoreControl?Output ConfigurationHalf Bridge (2)ApplicationsDC-DC ConvertersInterfacePWMLoad TypeInductiveTechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Manufacturer Part Number	TDA21102
PMC - Full, Half-Bridge DriversPackage14-SOIC (0.154", 3.90mm Width)SeriesCoreControl?Output ConfigurationHalf Bridge (2)ApplicationsDC-DC ConvertersInterfacePWMLoad TypeInductiveTechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Output / Channel5 V ~ 13.2 VVoltage - Supply0.88 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionSurface MountMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)	Manufacturer	Infineon Technologies
Package14-SOIC (0.154", 3.90mm Width)SeriesCoreControl?Output ConfigurationHalf Bridge (2)ApplicationsDC-DC ConvertersInterfacePWMLoad TypeInductiveTechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - LoadSov (TJ)FeaturesBootstrap CircuitFeaturesBootstrap CircuitFault ProtectionSurface MountMounting TypeSurface MountPackage / CaseI4-SOIC (0.154", 3.90mm Width)	Category	Integrated Circuits (ICs)
SeriesCoreControl?Output ConfigurationHalf Bridge (2)ApplicationsDC-DC ConvertersInterfacePWMLoad TypeInductiveTechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Output / Channel4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / CaseI4-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14		PMIC - Full, Half-Bridge Drivers
Output ConfigurationHalf Bridge (2)ApplicationsDC-DC ConvertersInterfacePWMLoad TypeInductiveTechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5V ~ 13.2 VFeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MouttPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package9C-DSO-14	Package	14-SOIC (0.154", 3.90mm Width)
ApplicationsDC-DC ConvertersInterfacePWMLoad TypeInductiveTechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitMounting TypeSurface MountPackage / Case14.SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Series	CoreControl?
InterfacePWMLoad TypeInductiveTechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitMounting TypeSubort-Through, UVLOPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Output Configuration	Half Bridge (2)
Load TypeInductiveTechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionSurface MountMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device Package9G-DSO-14	Applications	DC-DC Converters
TechnologyPower MOSFETRds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Interface	PWM
Rds On (Typ)1.4 Ohm LS, 1 Ohm HSCurrent - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Load Type	Inductive
Current - Output / Channel-Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Technology	Power MOSFET
Current - Peak Output4AVoltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Rds On (Typ)	1.4 Ohm LS, 1 Ohm HS
Voltage - Supply10.8 V ~ 13.2 VVoltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Current - Output / Channel	-
Voltage - Load5 V ~ 13.2 VOperating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Current - Peak Output	4A
Operating Temperature-25°C ~ 150°C (TJ)FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Voltage - Supply	10.8 V ~ 13.2 V
FeaturesBootstrap CircuitFault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Voltage - Load	5 V ~ 13.2 V
Fault ProtectionShoot-Through, UVLOMounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Operating Temperature	-25°C ~ 150°C (TJ)
Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Features	Bootstrap Circuit
Package / Case14-SOIC (0.154", 3.90mm Width)Supplier Device PackagePG-DSO-14	Fault Protection	Shoot-Through, UVLO
Supplier Device Package PG-DSO-14	Mounting Type	Surface Mount
	Package / Case	14-SOIC (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	PG-DSO-14
		Report errors?

#### **TDA21102 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 GUARANTEE

#### **Service Guarantees**

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



If you have any question about TDA21102, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com