



#### DGD0506AM10-13 Information



For Reference Only

Part Number DGD0506AM10-13

Manufacturer Diodes Incorporated

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC GATE HV DRIVER MSOP-10

**Package** 10-TFSOP, 10-MSOP (0.118", 3.00mm Width)

For the pricing/inventory/lead time, please contact

us

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



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# **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.









## **DGD0506AM10-13 Specifications**

Manufacturer Part Number         DGD0506AM10-13           Manufacturer         Diodes Incorporated           Category         Integrated Circuits (ICs)           Package         10-TFSOP, 10-MSOP (0.118", 3.00mm Width)           Series         -           Driven Configuration         Half-Bridge           Channel Type         Single           Number of Drivers         2           Gate Type         N-Channel MOSFET           Voltage - Supply         8 V ~ 14 V           Logic Voltage - VIL, VIH         0.8V, 2.4V           Current - Peak Output (Source, Sink)         1.5A, 2A           Input Type         CMOS/TTL           High Side Voltage - Max (Bootstrap)         50V           Rise / Fall Time (Typ)         17ns, 12ns           Operating Temperature         -40°C ~ 125°C (TA)           Mounting Type         Surface Mount           Package / Case         10-TFSOP, 10-MSOP (0.118", 3.00mm Width)           Supplier Device Package         10-MSOP		
CategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage10-TFSOP, 10-MSOP (0.118", 3.00mm Width)Series-Driven ConfigurationHalf-BridgeChannel TypeSingleNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 2AInput TypeCMOS/TTLHigh Side Voltage - Max (Bootstrap)50VRise / Fall Time (Typ)17ns, 12nsOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case10-TFSOP, 10-MSOP (0.118", 3.00mm Width)Supplier Device Package10-MSOP	Manufacturer Part Number	DGD0506AM10-13
Package 10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Series - Driven Configuration Half-Bridge  Channel Type Single  Number of Drivers 2  Gate Type N-Channel MOSFET  Voltage - Supply 8 V ~ 14 V  Logic Voltage - VIL, VIH 0.8V, 2.4V  Current - Peak Output (Source, Sink) 1.5A, 2A  Input Type CMOS/TTL  High Side Voltage - Max (Bootstrap) 50V  Rise / Fall Time (Typ) 17ns, 12ns  Operating Temperature -40°C ~ 125°C (TA)  Mounting Type Surface Mount  Package / Case 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package 10-MSOP	Manufacturer	Diodes Incorporated
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Driven Configuration  Channel Type  Single  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  8 V ~ 14 V  Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  CMOS/TTL  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Package	10-TFSOP, 10-MSOP (0.118", 3.00mm Width)
Channel Type  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  8 V ~ 14 V  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  CMOS/TTL  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  17ns, 12ns  Operating Temperature  40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Series	-
Number of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 2AInput TypeCMOS/TTLHigh Side Voltage - Max (Bootstrap)50VRise / Fall Time (Typ)17ns, 12nsOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case10-TFSOP, 10-MSOP (0.118", 3.00mm Width)Supplier Device Package10-MSOP	Driven Configuration	Half-Bridge
Gate TypeN-Channel MOSFETVoltage - Supply8 V ~ 14 VLogic Voltage - VIL, VIH0.8V, 2.4VCurrent - Peak Output (Source, Sink)1.5A, 2AInput TypeCMOS/TTLHigh Side Voltage - Max (Bootstrap)50VRise / Fall Time (Typ)17ns, 12nsOperating Temperature-40°C ~ 125°C (TA)Mounting TypeSurface MountPackage / Case10-TFSOP, 10-MSOP (0.118", 3.00mm Width)Supplier Device Package10-MSOP	Channel Type	Single
Voltage - Supply  Logic Voltage - VIL, VIH  0.8V, 2.4V  Current - Peak Output (Source, Sink)  Input Type  CMOS/TTL  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Number of Drivers	2
Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  CMOS/TTL  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Gate Type	N-Channel MOSFET
Current - Peak Output (Source, Sink)  Input Type  CMOS/TTL  High Side Voltage - Max (Bootstrap)  Size / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Voltage - Supply	8 V ~ 14 V
Input Type CMOS/TTL High Side Voltage - Max (Bootstrap) SoV Rise / Fall Time (Typ) 17ns, 12ns Operating Temperature -40°C ~ 125°C (TA) Mounting Type Surface Mount Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width) Supplier Device Package	Logic Voltage - VIL, VIH	0.8V, 2.4V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package	Current - Peak Output (Source, Sink)	1.5A, 2A
Rise / Fall Time (Typ)  17ns, 12ns  Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package  10-MSOP	Input Type	CMOS/TTL
Operating Temperature  -40°C ~ 125°C (TA)  Mounting Type  Surface Mount  Package / Case  10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package  10-MSOP	High Side Voltage - Max (Bootstrap)	50V
Mounting Type Surface Mount  Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width)  Supplier Device Package 10-MSOP	Rise / Fall Time (Typ)	17ns, 12ns
Package / Case 10-TFSOP, 10-MSOP (0.118", 3.00mm Width) Supplier Device Package 10-MSOP	Operating Temperature	-40°C ~ 125°C (TA)
Supplier Device Package 10-MSOP	Mounting Type	Surface Mount
	Package / Case	10-TFSOP, 10-MSOP (0.118", 3.00mm Width)
Report errors?	Supplier Device Package	10-MSOP
		Report errors

#### DGD0506AM10-13 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.

## DGD0506AM10-13 Payment Methods





















## DGD0506AM10-13 Shipping Methods













If you have any question about DGD0506AM10-13, please do not hesitate to contact us!

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