

AOB416 Information



For Reference Only

Part Number AOB416

ManufacturerAlpha & Omega Semiconductor Inc.CategoryDiscrete Semiconductor ProductsTransistors - FETs, MOSFETs - Single

Description MOSFET N-CH 100V 45A D2PAK

Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB

For the pricing/inventory/lead time, please contact

us

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



Request a Quote

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.









AOB416 Specifications

Manufacturer Part Number AOB416 Manufacturer Alpha & Omega Semiconductor Inc. Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB Series SDMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 6.2A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 7V, 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1450pF @ 50V Vgs (Max) ±25V FET Feature - Power Dissipation (Max) 2.5W (Ta), 150W (Tc) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB Series SDMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 6.2A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 7V, 10V Vgs(th) (Max) @ Id 4V @ 250µA Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1450pF @ 50V Vgs (Max) ±25V FET Feature - Power Dissipation (Max) 2.5W (Ta), 150W (Tc) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Manufacturer Part Number	AOB416
Package To-263-3, D2Pak (2 Leads + Tab), TO-263AB Series SDMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 6.2A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 7V, 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1450pF @ 50V Vgs (Max) ±25V FET Feature - Power Dissipation (Max) 2.5W (Ta), 150W (Tc) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Manufacturer	Alpha & Omega Semiconductor Inc.
Package TO-263-3, D2Pak (2 Leads + Tab), TO-263AB Series SDMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 6.2A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 7V, 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1450pF @ 50V Vgs (Max) ±25V FET Feature - Power Dissipation (Max) 2.5W (Ta), 150W (Tc) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Category	Discrete Semiconductor Products
Series SDMOS? FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 100V Current - Continuous Drain (Id) @ 25°C 6.2A (Ta), 45A (Tc) Drive Voltage (Max Rds On, Min Rds On) 7V, 10V Vgs(th) (Max) @ Id 4V @ 250μA Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1450pF @ 50V Vgs (Max) ±25V FET Feature - Power Dissipation (Max) 2.5W (Ta), 150W (Tc) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB		Transistors - FETs, MOSFETs - Single
FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C6.2A (Ta), 45A (Tc)Drive Voltage (Max Rds On, Min Rds On)7V, 10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs24nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1450pF @ 50VVgs (Max)±25VFET Feature-Power Dissipation (Max)2.5W (Ta), 150W (Tc)Rds On (Max) @ Id, Vgs36 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-263 (D2Pak)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Package	TO-263-3, D2Pak (2 Leads + Tab), TO-263AB
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C6.2A (Ta), 45A (Tc)Drive Voltage (Max Rds On, Min Rds On)7V, 10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs24nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1450pF @ 50VVgs (Max)±25VFET Feature-Power Dissipation (Max)2.5W (Ta), 150W (Tc)Rds On (Max) @ Id, Vgs36 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-263 (D2Pak)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Series	SDMOS?
Drain to Source Voltage (Vdss)100VCurrent - Continuous Drain (Id) @ 25°C6.2A (Ta), 45A (Tc)Drive Voltage (Max Rds On, Min Rds On)7V, 10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs24nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1450pF @ 50VVgs (Max)±25VFET Feature-Power Dissipation (Max)2.5W (Ta), 150W (Tc)Rds On (Max) @ Id, Vgs36 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-263 (D2Pak)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature Supplier Device Package Package / Case 6.2A (Ta), 45A (Tc) 6.2A (T	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)7V, 10VVgs(th) (Max) @ Id4V @ 250μAGate Charge (Qg) (Max) @ Vgs24nC @ 10VInput Capacitance (Ciss) (Max) @ Vds1450pF @ 50VVgs (Max)±25VFET Feature-Power Dissipation (Max)2.5W (Ta), 150W (Tc)Rds On (Max) @ Id, Vgs36 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-263 (D2Pak)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Drain to Source Voltage (Vdss)	100V
Vgs(th) (Max) @ Id Gate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature Surplier Device Package Package / Case 4V @ 250μA 4V @ 250μA 24nC @ 10V 1450pF @ 50V 25V FET Feature - Surface Mount To-263 (D2Pak) To-263-3, D2Pak (2 Leads + Tab), TO-263AB	Current - Continuous Drain (Id) @ 25°C	6.2A (Ta), 45A (Tc)
Gate Charge (Qg) (Max) @ Vgs 24nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 1450pF @ 50V Vgs (Max) ±25V FET Feature - Power Dissipation (Max) 2.5W (Ta), 150W (Tc) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Drive Voltage (Max Rds On, Min Rds On)	7V, 10V
Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) +25V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Vgs(th) (Max) @ Id	4V @ 250μA
Vgs (Max) ±25V FET Feature - Power Dissipation (Max) 2.5W (Ta), 150W (Tc) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Gate Charge (Qg) (Max) @ Vgs	24nC @ 10V
FET Feature Power Dissipation (Max) 2.5W (Ta), 150W (Tc) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Input Capacitance (Ciss) (Max) @ Vds	1450pF @ 50V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 36 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Vgs (Max)	±25V
Rds On (Max) @ Id, Vgs36 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-263 (D2Pak)Package / CaseTO-263-3, D2Pak (2 Leads + Tab), TO-263AB	FET Feature	-
Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Power Dissipation (Max)	2.5W (Ta), 150W (Tc)
Mounting Type Surface Mount Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Rds On (Max) @ Id, Vgs	36 mOhm @ 20A, 10V
Supplier Device Package TO-263 (D2Pak) Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-263-3, D2Pak (2 Leads + Tab), TO-263AB	Mounting Type	Surface Mount
	Supplier Device Package	TO-263 (D2Pak)
Report errors?	Package / Case	TO-263-3, D2Pak (2 Leads + Tab), TO-263AB
		Report errors?

AOB416 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.

AOB416 Payment Methods



















AOB416 Shipping Methods













If you have any question about AOB416, please do not hesitate to contact us!

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