

AOD510 Information



For Reference Only

Part Number AOD510

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

Description MOSFET N-CH 30V 70A TO252

Package TO-252-3, DPak (2 Leads + Tab), SC-63

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.









AOD510 Specifications

Manufacturer Part Number AOD510 Manufacturer Alpha & Omega Semiconductor Inc. Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 45A (Ta), 70A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.2V @ 250µA Gate Charge (Qg) (Max) @ Vgs 60nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2719pF @ 15V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63 Report errors?		
Category Discrete Semiconductor Products Transistors - FETs, MOSFETs - Single Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 45A (Ta), 70A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.2V @ 250μA Gate Charge (Qg) (Max) @ Vgs 60nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2719pF @ 15V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	AOD510
Package TO-252-3, DPak (2 Leads + Tab), SC-63 Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 45A (Ta), 70A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.2V @ 250µA Gate Charge (Qg) (Max) @ Vgs 60nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2719pF @ 15V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer	Alpha & Omega Semiconductor Inc.
PackageTO-252-3, DPak (2 Leads + Tab), SC-63Series-FET TypeN-ChannelTechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C45A (Ta), 70A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.2V @ 250μAGate Charge (Qg) (Max) @ Vgs60nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2719pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)7.5W (Ta), 60W (Tc)Rds On (Max) @ Id, Vgs2.6 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Category	Discrete Semiconductor Products
Series - FET Type N-Channel Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) 30V Current - Continuous Drain (Id) @ 25°C 45A (Ta), 70A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.2V @ 250µA Gate Charge (Qg) (Max) @ Vgs 60nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2719pF @ 15V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63		Transistors - FETs, MOSFETs - Single
FET Type Technology MOSFET (Metal Oxide) Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 45A (Ta), 70A (Tc) Drive Voltage (Max Rds On, Min Rds On) Vgs(th) (Max) @ Id Cate Charge (Qg) (Max) @ Vgs 60nC @ 10V Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) £20V FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature Supplier Device Package TO-252, (D-Pak) Package / Case N-Channel Abserved (Max) Abserved (Ata) Supvice Mount To-252, (D-Pak) Package / Case	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)30VCurrent - Continuous Drain (Id) @ 25°C45A (Ta), 70A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.2V @ 250μAGate Charge (Qg) (Max) @ Vgs60nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2719pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)7.5W (Ta), 60W (Tc)Rds On (Max) @ Id, Vgs2.6 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Series	-
Drain to Source Voltage (Vdss) Current - Continuous Drain (Id) @ 25°C 45A (Ta), 70A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id Cate Charge (Qg) (Max) @ Vgs Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) FET Feature Power Dissipation (Max) Rds On (Max) @ Id, Vgs Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case A.5V, 10V 4.5A (Ta), 70A (Tc) 4.5V, 10V 4.5V,	FET Type	N-Channel
Current - Continuous Drain (Id) @ 25°C 45A (Ta), 70A (Tc) Drive Voltage (Max Rds On, Min Rds On) 4.5V, 10V Vgs(th) (Max) @ Id 2.2V @ 250μA Gate Charge (Qg) (Max) @ Vgs 60nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2719pF @ 15V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.2V @ 250μAGate Charge (Qg) (Max) @ Vgs60nC @ 10VInput Capacitance (Ciss) (Max) @ Vds2719pF @ 15VVgs (Max)±20VFET Feature-Power Dissipation (Max)7.5W (Ta), 60W (Tc)Rds On (Max) @ Id, Vgs2.6 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Drain to Source Voltage (Vdss)	30V
Vgs(th) (Max) @ Id 2.2V @ 250μA Gate Charge (Qg) (Max) @ Vgs 60nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2719pF @ 15V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Current - Continuous Drain (Id) @ 25°C	45A (Ta), 70A (Tc)
Gate Charge (Qg) (Max) @ Vgs 60nC @ 10V Input Capacitance (Ciss) (Max) @ Vds 2719pF @ 15V Vgs (Max) ±20V FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Drive Voltage (Max Rds On, Min Rds On)	4.5V, 10V
Input Capacitance (Ciss) (Max) @ Vds Vgs (Max) ±20V FET Feature - Power Dissipation (Max) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs(th) (Max) @ Id	2.2V @ 250μA
Vgs (Max)±20VFET Feature-Power Dissipation (Max)7.5W (Ta), 60W (Tc)Rds On (Max) @ Id, Vgs2.6 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	Gate Charge (Qg) (Max) @ Vgs	60nC @ 10V
FET Feature - Power Dissipation (Max) 7.5W (Ta), 60W (Tc) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Input Capacitance (Ciss) (Max) @ Vds	2719pF @ 15V
Power Dissipation (Max) Rds On (Max) @ Id, Vgs 2.6 mOhm @ 20A, 10V Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Vgs (Max)	±20V
Rds On (Max) @ Id, Vgs2.6 mOhm @ 20A, 10VOperating Temperature-55°C ~ 175°C (TJ)Mounting TypeSurface MountSupplier Device PackageTO-252, (D-Pak)Package / CaseTO-252-3, DPak (2 Leads + Tab), SC-63	FET Feature	-
Operating Temperature -55°C ~ 175°C (TJ) Mounting Type Surface Mount TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Power Dissipation (Max)	7.5W (Ta), 60W (Tc)
Mounting Type Surface Mount TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Rds On (Max) @ Id, Vgs	2.6 mOhm @ 20A, 10V
Supplier Device Package TO-252, (D-Pak) Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Operating Temperature	-55°C ~ 175°C (TJ)
Package / Case TO-252-3, DPak (2 Leads + Tab), SC-63	Mounting Type	Surface Mount
	Supplier Device Package	TO-252, (D-Pak)
Report errors?	Package / Case	TO-252-3, DPak (2 Leads + Tab), SC-63
		Report errors?

AOD510 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.

AOD510 Payment Methods



















AOD510 Shipping Methods













If you have any question about AOD510, please do not hesitate to contact us!

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