



### **AOD474B Information**



For Reference Only

Part Number AOD474B

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

**Description** MOSFET N-CH 75V 10A 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



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# **AOD474B Specifications**

Manufacturer Part Number         AOD474B           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)         75V           Current - Continuous Drain (Id) @ 25°C         2.5A (Ta), 10A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.3V @ 250µA           Gate Charge (Qg) (Max) @ Vgs         10nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         282pF @ 37.5V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.1W (Ta), 28.5W (Tc)           Rds On (Max) @ Id, Vgs         132 mOhm @ 5A, 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)         75V           Current - Continuous Drain (Id) @ 25°C         2.5A (Ta), 10A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         10nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         282pF @ 37.5V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.1W (Ta), 28.5W (Tc)           Rds On (Max) @ Id, Vgs         132 mOhm @ 5A, 10V           Operating Temperature         -55°C ~ 175°C (TJ)           Mounting Type         Surface Mount           Supplier Device Package         TO-252-3, (D-Pak)           Package / Case         TO-252-3, DPak (2 Leads + Tab), SC-63	Manufacturer Part Number	AOD474B
Package         To-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         75V           Current - Continuous Drain (Id) @ 25°C         2.5A (Ta), 10A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         10nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         282pF @ 37.5V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.1W (Ta), 28.5W (Tc)           Rds On (Max) @ Id, Vgs         132 mOhm @ 5A, 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.
Package         TO-252-3, DPak (2 Leads + Tab), SC-63           Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         75V           Current - Continuous Drain (Id) @ 25°C         2.5A (Ta), 10A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         10nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         282pF @ 37.5V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.1W (Ta), 28.5W (Tc)           Rds On (Max) @ Id, Vgs         132 mOhm @ 5A, 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	Category	Discrete Semiconductor Products
Series         -           FET Type         N-Channel           Technology         MOSFET (Metal Oxide)           Drain to Source Voltage (Vdss)         75V           Current - Continuous Drain (Id) @ 25°C         2.5A (Ta), 10A (Tc)           Drive Voltage (Max Rds On, Min Rds On)         4.5V, 10V           Vgs(th) (Max) @ Id         2.3V @ 250μA           Gate Charge (Qg) (Max) @ Vgs         10nC @ 10V           Input Capacitance (Ciss) (Max) @ Vds         282pF @ 37.5V           Vgs (Max)         ±20V           FET Feature         -           Power Dissipation (Max)         2.1W (Ta), 28.5W (Tc)           Rds On (Max) @ Id, Vgs         132 mOhm @ 5A, 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  N-Channel  Technology  MOSFET (Metal Oxide)  75V  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)  FET Feature  Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  132 mOhm @ 5A, 10V  Operating Temperature  Supplier Device Package  Package / Case  N-Channel	Package	TO-252-3, DPak (2 Leads + Tab), SC-63
TechnologyMOSFET (Metal Oxide)Drain to Source Voltage (Vdss)75VCurrent - Continuous Drain (Id) @ 25°C2.5A (Ta), 10A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.3V @ 250μAGate Charge (Qg) (Max) @ Vgs10nC @ 10VInput Capacitance (Ciss) (Max) @ Vds282pF @ 37.5VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.1W (Ta), 28.5W (Tc)Rds On (Max) @ Id, Vgs132 mOhm @ 5A, 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)75VCurrent - Continuous Drain (Id) @ 25°C2.5A (Ta), 10A (Tc)Drive Voltage (Max Rds On, Min Rds On)4.5V, 10VVgs(th) (Max) @ Id2.3V @ 250μAGate Charge (Qg) (Max) @ Vgs10nC @ 10VInput Capacitance (Ciss) (Max) @ Vds282pF @ 37.5VVgs (Max)±20VFET Feature-Power Dissipation (Max)2.1W (Ta), 28.5W (Tc)Rds On (Max) @ Id, Vgs132 mOhm @ 5A, 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 Type	N-Channel
Current - Continuous Drain (Id) @ 25°C  Drive Voltage (Max Rds On, Min Rds On)  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  132 mOhm @ 5A, 10V  Operating Temperature  Supplier Device Package  Package / Case  2.5A (Ta), 10A (Tc)  2.5A (Ta), 10A (Tc)  2.5V  2.5V (Ta), 10A (Tc)  2.3V @ 250μA  10nC @ 10V  2.82pF @ 37.5V  2.1V (Ta), 28.5W (Tc)  132 mOhm @ 5A, 10V  TO-252, (D-Pak)  TO-252-3, DPak (2 Leads + Tab), SC-63	Technology	MOSFET (Metal Oxide)
Drive Voltage (Max Rds On, Min Rds On)  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  132 mOhm @ 5A, 10V  Operating Temperature  Surface Mount  Supplier Device Package  TO-252, (D-Pak)  Package / Case  Annual Surface Mount  To 2.3V @ 250μA  2.3V @ 250μA  2.3V @ 250μA  2.4V (Ta) (2.4V (Ta) (	Drain to Source Voltage (Vdss)	75V
Vgs(th) (Max) @ Id       2.3V @ 250μA         Gate Charge (Qg) (Max) @ Vgs       10nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       282pF @ 37.5V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       2.1W (Ta), 28.5W (Tc)         Rds On (Max) @ Id, Vgs       132 mOhm @ 5A, 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	2.5A (Ta), 10A (Tc)
Gate Charge (Qg) (Max) @ Vgs       10nC @ 10V         Input Capacitance (Ciss) (Max) @ Vds       282pF @ 37.5V         Vgs (Max)       ±20V         FET Feature       -         Power Dissipation (Max)       2.1W (Ta), 28.5W (Tc)         Rds On (Max) @ Id, Vgs       132 mOhm @ 5A, 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  282pF @ 37.5V  Vgs (Max)  ±20V  FET Feature  - Power Dissipation (Max)  Rds On (Max) @ Id, Vgs  132 mOhm @ 5A, 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	2.3V @ 250μA
Vgs (Max) $\pm 20$ VFET Feature-Power Dissipation (Max) $2.1$ W (Ta), $28.5$ W (Tc)Rds On (Max) @ Id, Vgs $132$ mOhm @ $5$ A, $10$ VOperating Temperature $-55^{\circ}$ C $\sim 175^{\circ}$ C (TJ)Mounting TypeSurface MountSupplier Device Package $TO-252$ , $(D-Pak)$ Package / Case $TO-252-3$ , $DPak$ ( $2$ Leads + $Tab$ ), $SC-63$	Gate Charge (Qg) (Max) @ Vgs	10nC @ 10V
FET Feature -  Power Dissipation (Max) 2.1W (Ta), 28.5W (Tc)  Rds On (Max) @ Id, Vgs 132 mOhm @ 5A, 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	282pF @ 37.5V
Power Dissipation (Max)  2.1W (Ta), 28.5W (Tc)  Rds On (Max) @ Id, Vgs  132 mOhm @ 5A, 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, Vgs132 mOhm @ 5A, 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)	2.1W (Ta), 28.5W (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	132 mOhm @ 5A, 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?

### **AOD474B 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.

## **AOD474B Payment Methods**





















# **AOD474B Shipping Methods**













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