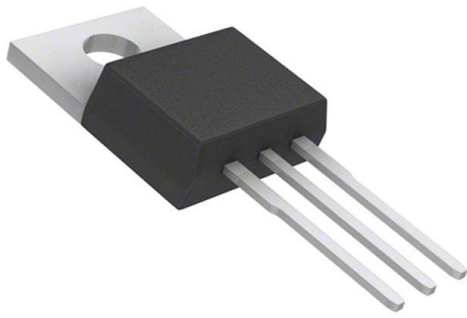


# AOT12N60FDL Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	AOT12N60FDL-DG
Manufacturer	<a href="#">Alpha &amp; Omega Semiconductor Inc.</a>
Manufacturer Product Number	AOT12N60FDL
Description	MOSFET N-CH 600V 12A TO220
Detailed Description	N-Channel 600 V 12A (Tc) 278W (Tc) Through Hole TO-220



Tel: +00 852-30501935

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DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

**Manufacturer Product Number:**

AOT12N60FDL

**Series:**

-

**FET Type:**

N-Channel

**Drain to Source Voltage (Vdss):**

600 V

**Drive Voltage (Max Rds On, Min Rds On):**

10V

**Vgs(th) (Max) @ Id:**

4V @ 250µA

**Vgs (Max):**

±30V

**FET Feature:**

-

**Operating Temperature:**

-55°C ~ 150°C (Tj)

**Supplier Device Package:**

TO-220

**Base Product Number:**

AOT12

**Manufacturer:**

Alpha &amp; Omega Semiconductor Inc.

**Product Status:**

Obsolete

**Technology:**

MOSFET (Metal Oxide)

**Current - Continuous Drain (Id) @ 25°C:**

12A (Tc)

**Rds On (Max) @ Id, Vgs:**

650mOhm @ 6A, 10V

**Gate Charge (Qg) (Max) @ Vgs:**

50 nC @ 10 V

**Input Capacitance (Ciss) (Max) @ Vds:**

2010 pF @ 25 V

**Power Dissipation (Max):**

278W (Tc)

**Mounting Type:**

Through Hole

**Package / Case:**

TO-220-3

## Environmental & Export classification

**RoHS Status:**

ROHS3 Compliant

**REACH Status:**

REACH Unaffected

**HTSUS:**

8541.29.0095

**Moisture Sensitivity Level (MSL):**

1 (Unlimited)

**ECCN:**

EAR99



### AOS Green Policy

As a responsible global citizen, AOS is committed to protecting our environment by becoming a Green supplier. We began this effort by converting our products to be RoHS compliant starting in August 2004 and achieving RoHS compliance conversion in July 2005. The second effort is having eliminated brominate based flame retardant in our molding compounds and set forth the green raw material selection rule (as known “Halogen free”, “Low halogen” as well) for further package development by end of 2010 year.

Substance	Limitation On homogenous material level	Applied scope and typical purpose
Bromine	<900ppm	Resin, Rubber, organic materials, used as flame retardant
Chlorine	<900ppm	
Total Bromine and Chlorine	<1500ppm	
Antimony	<900ppm	

### Present Status

All of packages have converted to Green (Halogen free / Low halogen) version by 2010 year. Only several Non-halogen free packages, limited to TO220, TO220F/L, TO262, TO247, remained per customers’ demands, AOS is using of dual part numbers for the device built in these package, A suffix “L” will be added to partnumber to identify green version. The table is given for better- understand and identification.

Package	Part # (Non-halogen free)	Part # (Green)
TO220	AOTxxxx	AOTxxxxL
TO220F/TO220FL	AOTFxxxx	AOTFxxxxL
TO263	AOBxxxx	AOBxxxxL
TO247	AOKxxxx	AOKxxxxL

You may find the partnumber with suffix “L” built in other packages, this is for identification of green version, when we converted to green, in this case, partnumber with / without suffix “L” late than date code 2010 year are green part.

## OUR CERTIFICATE

DiGi provide top-quality products and perfect service for customer worldwide through standardization, technological innovation and continuous improvement. DiGi through third-party certification, we stricly control the quality of products and services. Welcome your RFQ to

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