

# FAN1616A

## 0.5A Adjustable/Fixed Low Dropout Linear Regulator

### Features

- Low dropout voltage
- Load regulation: 0.05% typical
- Current limit
- On-chip thermal limiting
- Standard SOT-223 and TO-252 packages
- Three-terminal adjustable or fixed 1.8V, 2.5V, 3.3V or 5V
- Specified from -40°C to +125°C

### Applications

- USB Controlled Power Supply
- High efficiency linear regulators for Mixed Voltage Logic, ASIC, FPGA based systems
- Post regulators for switching supplies
- Battery chargers
- 12V to 5V, 3.3V, 2.5V, 1.8V, or adj linear regulators
- Motherboard clock supplies
- SDRAM Module supplies

### Description

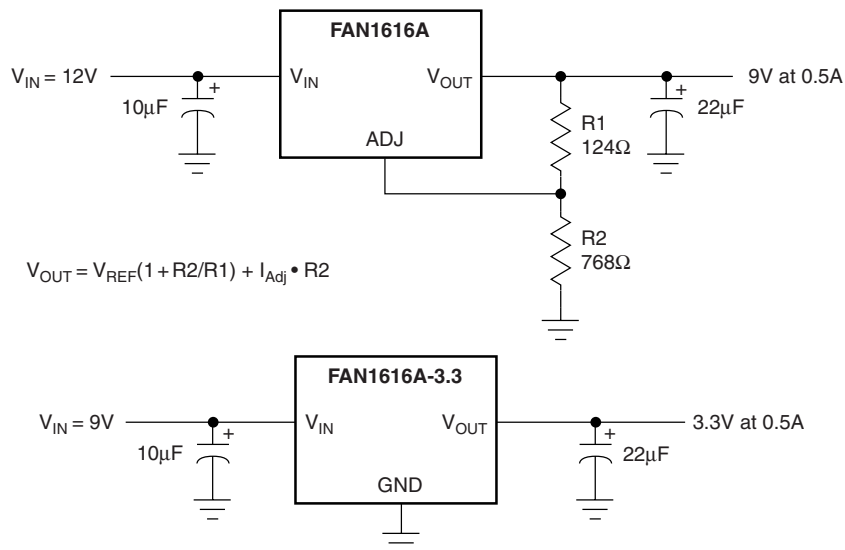
The FAN1616A, FAN1616A-1.8, -2.5, -3.3 and -5 are low dropout three-terminal regulators with 0.5A output current capability. These devices have been optimized for applications where transient response and minimum dropout voltage are critical. The 5V version is designed also to be used in USB Hub and Motherboard applications.

On-chip thermal limiting provides protection against any combination of overload and ambient temperature that would create excessive junction temperatures.

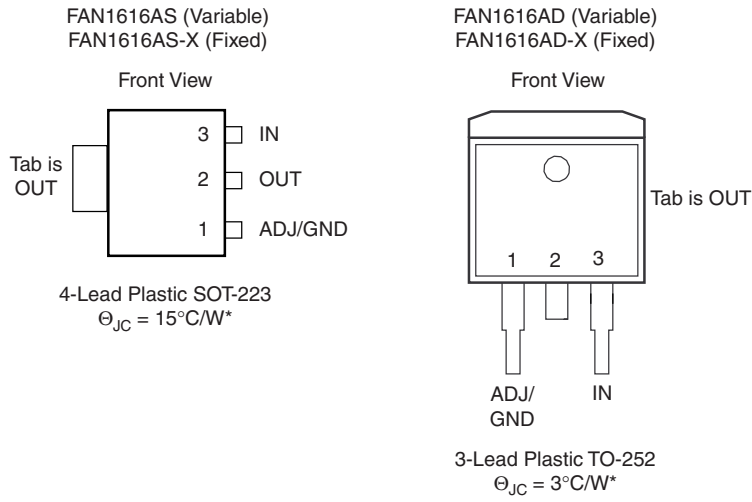
Unlike PNP type regulators where up to 10% of the output current is wasted as quiescent current, the bias current of the FAN1616A flows into the load, increasing efficiency.

The FAN1616A series regulators are available in the industry-standard SOT-223 and TO-252 power packages.

### Typical Applications



## Pin Assignments



\*With package soldered to 0.5 square inch copper area over backside ground plane or internal power plane,  $\theta_{JA}$  can vary from  $30^{\circ}\text{C}/\text{W}$  to  $>50^{\circ}\text{C}/\text{W}$ . Other mounting techniques may provide better power dissipation than  $30^{\circ}\text{C}/\text{W}$ .

## Absolute Maximum Ratings

Parameter	Min.	Max.	Unit
$V_{IN}$		18	V
$(V_{IN}-V_{OUT}) * I_{OUT}$		See Figure 1	
Operating Junction Temperature Range	-40	125	$^{\circ}\text{C}$
Storage Temperature Range	-65	150	$^{\circ}\text{C}$
Lead Temperature (Soldering, 10 sec.)		300	$^{\circ}\text{C}$

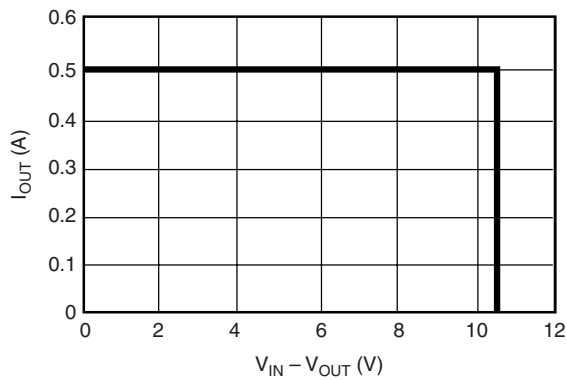


Figure 1. Absolute Maximum Safe Operating Area

## Electrical Characteristics

Operating Conditions:  $V_{IN} \leq 12V$ ,  $T_J = 25^\circ C$  unless otherwise specified.

The • denotes specifications which apply over the specified operating temperature range.

Parameter	Conditions	Min.	Typ.	Max.	Units
Reference Voltage <sup>3</sup>	$1.5V \leq (V_{IN} - V_{OUT}) \leq 5.75V$ , $10mA \leq I_{OUT} \leq 0.5A$	• 1.225 (-2%)	1.250	1.275 (+2%)	V
Output Voltage <sup>4</sup>	$10mA \leq I_{OUT} \leq 0.5A$ FAN1616A-1.8, $3.3V \leq V_{IN} \leq 12V$ FAN1616A-2.5, $4.0V \leq V_{IN} \leq 12V$ FAN1616A-3.3, $4.5V \leq V_{IN} \leq 12V$ FAN1616A-5, $6.2V \leq V_{IN} \leq 12V$	• 1.764 • 2.450 • 3.234 • 4.900	1.800 2.500 3.300 5.000	1.836 2.550 3.366 5.100	V V V V
Line Regulation <sup>1,2</sup>	$(V_{OUT} + 1.5V) \leq V_{IN} \leq 12V$ , $I_{OUT} = 10mA$	•	0.005	0.2	%
Load Regulation <sup>1,2,3</sup>	$(V_{IN} - V_{OUT}) = 2V$ , $10mA \leq I_{OUT} \leq 0.5A$	•	0.05	0.5	%
Dropout Voltage	$\Delta V_{REF} = 1\%$ , $I_{OUT} = 0.5A$	•	1.000	1.200	V
Adjust Pin Current <sup>3</sup>		•	35	120	$\mu A$
Adjust Pin Current Change <sup>3,4</sup>	$1.5V \leq (V_{IN} - V_{OUT}) \leq 12V$ , $10mA \leq I_{OUT} \leq 0.5A$	•	0.2	5	$\mu A$
Minimum Load Current	$1.5V \leq (V_{IN} - V_{OUT}) \leq 12V$	•	10		mA
Quiescent Current	$V_{IN} = V_{OUT} + 1.25V$	•	4	13	mA
Ripple Rejection	$f = 120Hz$ , $C_{OUT} = 22\mu F$ Tantalum, $(V_{IN} - V_{OUT}) = 3V$ , $I_{OUT} = 0.5A$		60	72	dB
Thermal Regulation	$T_A = 25^\circ C$ , 30ms pulse		0.004	0.02	%/W
Temperature Stability		•	0.5		%
Long-Term Stability	$T_A = 125^\circ C$ , 1000hrs.		0.03	1.0	%
RMS Output Noise (% of $V_{OUT}$ )	$T_A = 25^\circ C$ , $10Hz \leq f \leq 10kHz$		0.003		%
Thermal Resistance, Junction to Case	SOT-223		15		$^\circ C/W$
	TO-252		3		$^\circ C/W$
Thermal Shutdown			150		$^\circ C$

### Notes:

- See thermal regulation specifications for changes in output voltage due to heating effects. Load and line regulation are measured at a constant junction temperature by low duty cycle pulse testing.
- Line and load regulation are guaranteed up to the maximum power dissipation. Power dissipation is determined by input/output differential and the output current. Guaranteed maximum output power will not be available over the full input/output voltage range.
- FAN1616A only.
- Output current must be limited to meet the absolute maximum ratings of the part.

# Typical Performance Characteristics

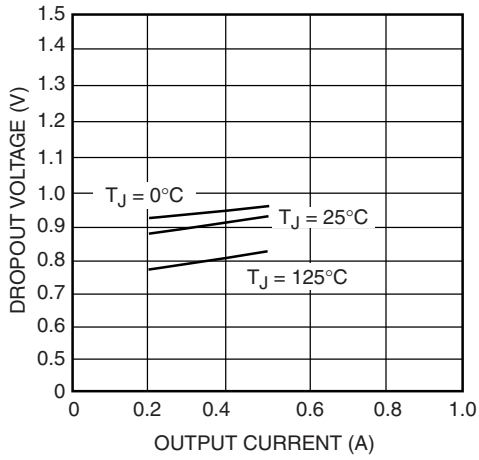


Figure 2. Dropout Voltage vs. Output Current

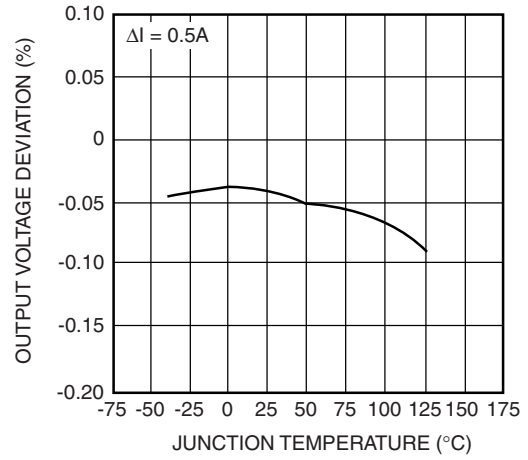


Figure 3. Load Regulation vs. Temperature

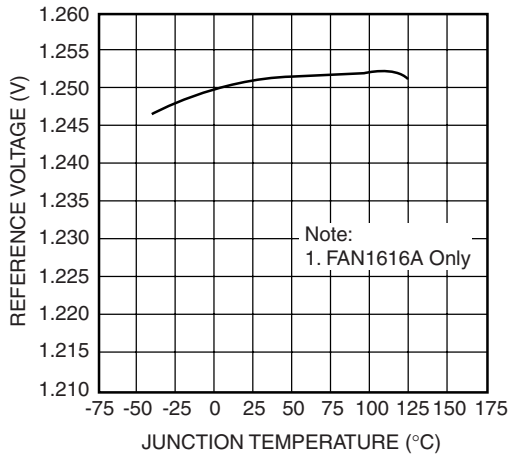


Figure 4. Reference Voltage vs. Temperature

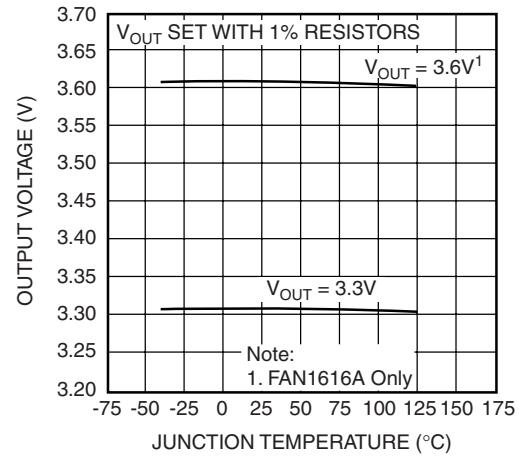


Figure 5. Output Voltage vs. Temperature

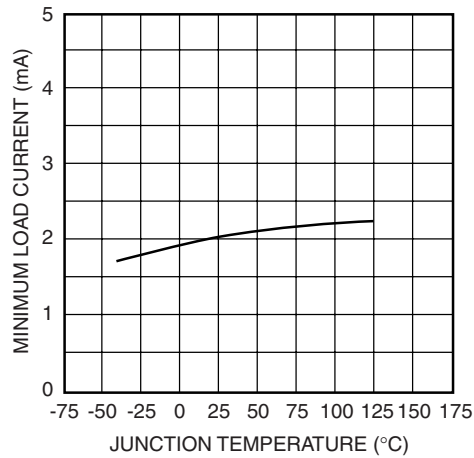


Figure 6. Minimum Load Current vs. Temperature

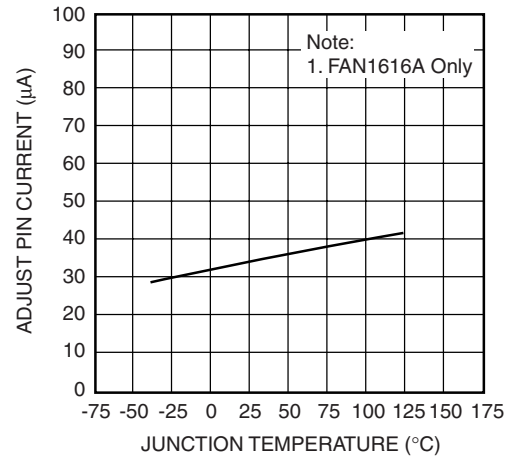


Figure 7. Adjust Pin Current vs. Temperature

Typical Performance Characteristics (continued)

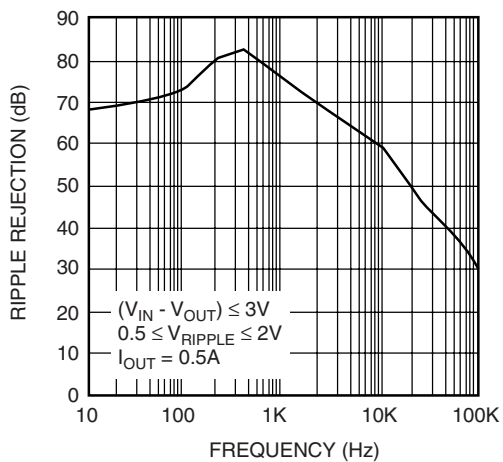


Figure 8. Ripple Rejection vs. Frequency

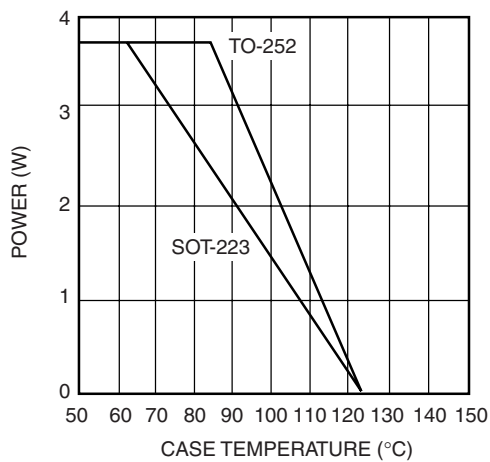


Figure 9. Maximum Power Dissipation

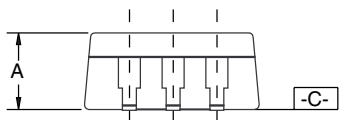
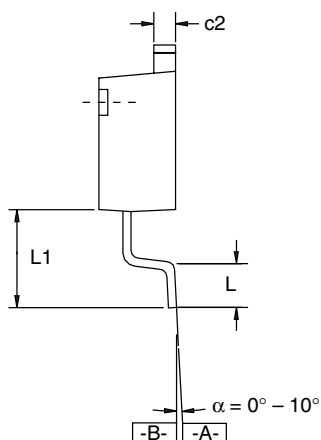
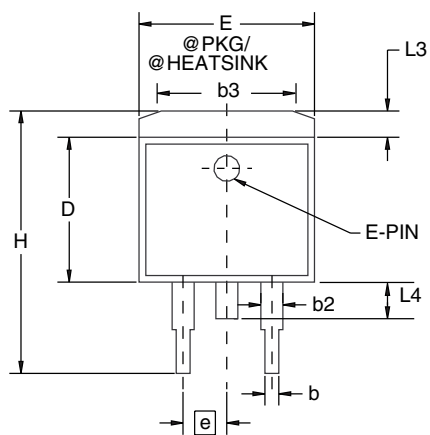
# Mechanical Dimensions

## 3-Lead TO-252 Package

Symbol	Inches		Millimeters		Notes
	Min.	Max.	Min.	Max.	
A	.086	.094	2.19	2.39	
b	.025	.035	0.64	0.89	
b2	.030	.045	0.76	1.14	
b3	.205	.215	5.21	5.46	4
c	.018	.024	0.46	0.61	
c2	.018	.023	0.46	0.58	
D	.210	.245	5.33	6.22	1
E	.250	.265	6.35	6.73	1
e	.090 BSC		2.29 BSC		
H	.370	.410	9.40	10.41	
L	.055	.070	1.40	1.78	3
L1	.108 REF		2.74 REF		
L3	.035	.080	0.89	2.03	4
L4	.025	.040	0.64	1.02	

**Notes:**

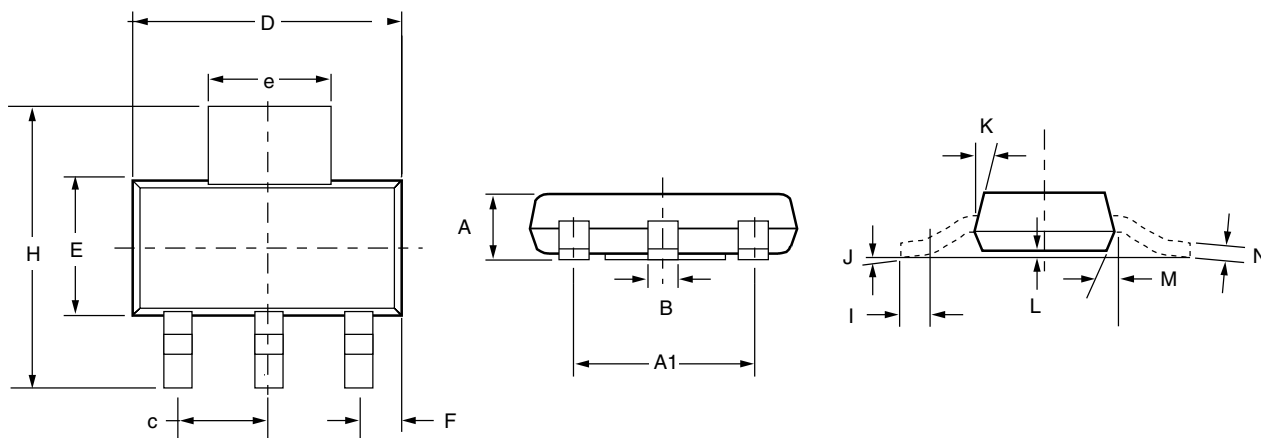
1. Dimensions are exclusive of mold flash, metal burrs or interlead protrusion.
2. Stand off-height is measured from lead tip with ref. to Datum -B-.
3. Foot length is measured with ref. to Datum -A- with lead surface.
4. Thermal pad contour optional within dimension b3 and L3.
5. Formed leads to be planar with respect to one another at seating place -C-.
6. Dimensions and tolerances per ASME Y14.5M-1994.



# Mechanical Dimensions

## 4-Lead SOT-223 Package

Symbol	Inches		Millimeters		Notes
	Min.	Max.	Min.	Max.	
A	—	.071	—	1.80	
A1	—	.181	—	4.80	
B	.025	.033	.640	.840	
c	—	.090	—	2.29	
D	.248	.264	6.30	6.71	
E	.130	.148	3.30	3.71	
e	.115	.124	2.95	3.15	
F	.033	.041	.840	1.04	
H	.264	.287	6.71	7.29	
I	.012	—	.310	—	
J	—	10°	—	10°	
K	10°	16°	10°	16°	
L	.0008	.0040	.0203	.1018	
M	10°	16°	10°	16°	
N	.010	.014	.250	.360	



## Ordering Information

Product Number	Package
FAN1616ADX	TO-252 in tape and reel
FAN1616ASX	SOT-223 in tape and reel
FAN1616AD18X	TO-252 in tape and reel
FAN1616AS18X	SOT-223 in tape and reel
FAN1616AD25X	TO-252 in tape and reel
FAN1616AS25X	SOT-223 in tape and reel
FAN1616AD33X	TO-252 in tape and reel
FAN1616AS33X	SOT-223 in tape and reel
FAN1616AD5X	TO-252 in tape and reel
FAN1616AS5X	SOT-223 in tape and reel

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.



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parametric search](#)[Cross-reference  
search](#)

FAN1616Ax33

Product information

Contents

[General description](#) | [Features](#) | [Applications](#) |  
[Product status/pricing/packaging](#)

## General description

The FAN1616A and FAN1616A-1.8 , -2.5, -3.3 and -5 are low dropout three-terminal regulators with 0.5A output current capability. These devices have been optimized for applications where transient response and minimum dropout voltage are critical. The 5V version is designed also to be used in USB Hub and Motherboard applications.

On-chip thermal limiting provides protection against any combination of overload and ambient temperature that would create excessive junction temperatures.

Unlike PNP type regulators where up to 10% of the output current is wasted as quiescent current, the bias current of the FAN1616A flows into the load, increasing efficiency.

The FAN1616A series regulators are available in the industry- standard SOT-223 and TO-252 power packages.

[back to top](#)

Features

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- Low dropout voltage
- Load regulation: 0.05% typical
- Current limit
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- Standard SOT-223 and TO-252 packages
- Three-terminal adjustable or fixed 1.8V, 2.5V, 3.3V or 5V
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[back to top](#)

#### Applications

- USB Controlled Power Supply
- High efficiency linear regulators for Mixed Voltage Logic, ASIC, FPGA based systems
- Post regulators for switching supplies
- Battery chargers
- 12V to 5V, 3.3V, 2.5V, 1.8V or adjustable linear regulators
- Motherboard clock supplies
- SDRAM Module supplies

[back to top](#)

#### Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Package marking	Packing method
FAN1616AS33X	Full Production	\$0.443	<a href="#">SOT-223</a>	4	\$Y&Z&2&T 1616AS33 \$.\$.	TAPE REEL
FAN1616AD33X	Full Production	\$0.443	<a href="#">TO-252(DPAK)</a>	3	\$Y&Z&2&T 1616AD33 K	TAPE REEL

\* 1,000 piece Budgetary Pricing

[back to top](#)

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[Markets and](#)

[applications](#)

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[Product selection and](#)

[parametric search](#)

[Cross-reference](#)

[search](#)

FAN1616Ax18

Product information

Contents

[General description](#) | [Features](#) | [Applications](#) |

[Product status/pricing/packaging](#)

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[back to top](#)

Features

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[back to top](#)

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[back to top](#)

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Product	Product status	Pricing*	Package type	Leads	Package marking	Packing method
FAN1616AD18X	Full Production	\$0.443	<a href="#">TO-252(DPAK)</a>	3	\$Y&Z&2&T 1616AD18 K	TAPE REEL
FAN1616AS18X	Full Production	\$0.443	<a href="#">SOT-223</a>	4	\$Y&Z&2&T 1616AS18 \$.\$.	TAPE REEL

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[Optoelectronics](#)

[Markets and](#)

[applications](#)

[New products](#)

[Product selection and](#)

[parametric search](#)

[Cross-reference](#)

[search](#)

FAN1616Ax25

Product information

Contents

[General description](#) | [Features](#) | [Applications](#) |

[Product status/pricing/packaging](#)

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[back to top](#)

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[back to top](#)

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[back to top](#)

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[back to top](#)

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[Markets and](#)

[applications](#)

[New products](#)

[Product selection and](#)

[parametric search](#)

[Cross-reference](#)

[search](#)

FAN1616A

Product information

Contents

[General description](#) | [Features](#) | [Applications](#) |

[Product status/pricing/packaging](#)

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[back to top](#)

Features

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[back to top](#)

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[back to top](#)

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FAN1616Ax5

Product information

Contents

[General description](#) | [Features](#) | [Applications](#) |

[Product status/pricing/packaging](#)

General description

The FAN1616A and FAN1616A-1.8, -2.5, -3.3 and -5 are low dropout three-terminal regulators with 0.5A output current capability. These devices have been optimized for applications where transient response and minimum dropout voltage are critical. The 5V version is designed also to be used in USB Hub and Motherboard applications.

On-chip thermal limiting provides protection against any combination of overload and ambient temperature that would create excessive junction temperatures.

Unlike PNP type regulators where up to 10% of the output current is wasted as quiescent current, the bias current of the FAN1616A flows into the load, increasing efficiency.

The FAN1616A series regulators are available in the industry- standard SOT-223 and TO-252 power packages.

[back to top](#)

Features

[Related Links](#)

[Request samples](#)

[How to order products](#)

[Product Change Notices \(PCNs\)](#)

[Support](#)

[Distributor and field sales representatives](#)

[Quality and reliability](#)

[Design tools](#)

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- Low dropout voltage
- Load regulation: 0.05% typical
- Current limit
- On-chip thermal limiting
- Standard SOT-223 and TO-252 packages
- Three-terminal adjustable or fixed 1.8V, 2.5V, 3.3V or 5V
- Specified from -40°C to +125°C

[back to top](#)

#### Applications

- USB Controlled Power Supply
- High efficiency linear regulators for Mixed Voltage Logic, ASIC, FPGA based systems
- Post regulators for switching supplies
- Battery chargers
- 12V to 5V, 3.3V, 2.5V, 1.8V or adjustable linear regulators
- Motherboard clock supplies
- SDRAM Module supplies

[back to top](#)

#### Product status/pricing/packaging

Product	Product status	Pricing*	Package type	Leads	Package marking	Packing method
FAN1616AS5X	Full Production	\$0.443	<a href="#">SOT-223</a>	4	\$Y&Z&2&T 1616AS5 \$.\$.	TAPE REEL
FAN1616AD5X	Full Production	N/A	<a href="#">TO-252(DPAK)</a>	3	\$Y&Z&2&T 1616AD5 K	TAPE REEL

\* 1,000 piece Budgetary Pricing

[back to top](#)

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