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AP2122 (NRND)

NRND = Not Recommended for New Design

High Speed, Extremely Low Noise LDO Regulator

[Datasheet](#)

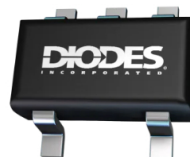


Image shown is for reference only. Actual package may vary. Refer to the product data sheet for package details. [Q SOT25](#)

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Description

The AP2122 series are positive voltage regulator ICs fabricated by CMOS process. Each of these ICs consists of a voltage reference, an error amplifier, a resistor network for setting output voltage, a current limit circuit for current protection and a chip enable circuit. The AP2122 series feature high ripple rejection, low dropout voltage, low noise, high output voltage accuracy, and low current consumption which make them ideal for use in various battery-powered devices. The AP2122 series have 1.5V, 1.8V, 2.5V, 2.8V, 3.0V, 3.2V and 3.3V versions.

Feature(s)

· Low Dropout Voltage at IOUT=100mA: 150mV Typical (Except 1.5V Version) · Low Standby Current: 0.1µA Typical · Low Quiescent Current: 25µA Typical · High Ripple Rejection: 70dB Typical(F=10kHz) · Maximum Output Current: More Than 150mA (300mA Limit) · Extremely Low Noise: 30µVrms (10Hz to 100kHz) · Excellent Line Regulation: 4mV Typical · Excellent Load Regulation: 12mV Typical · High Output Voltage Accuracy: ±2% · Excellent Line and Load Transient Response · Compatible with Low ESR Ceramic Capacitor (as Low as 1µF)

Application(s)

· Mobile Phones, Cordless Phones · MP3/4 · Portable Electronic Devices · Cameras, Video Recorders · Sub-board Power Supplies for Telecom Equipment · Battery Powered Equipment

Specifications & Technical Documents

Product Parameters

Accuracy 25C	2%
Channels	1
Compliance (Only Automotive Supports PPAP)	Standard
Enable Active	H
Features	Small-size
Fixed Vout (V)	1.5, 1.8, 2.5, 2.8, 3.0, 3.2, 3.5
I _{OUT}	0.15
I _{out} (A)	0.15
I _Q (mA)	25
Noise uV RMS 10-100 kHz	30
Output Discharge	no
Output options	Fixed
PSRR	70
PSRR (dB) 1kHz	70

Related Content

Packages

[SOT25](#)



Request Free CAD Models

Technical Documents

Recommended Soldering Techniques

[TN1.pdf](#)

RoHS CofC

[RoHSFile](#)

VCTL Function	no
VDROPOUT (Max) (V) at Max Current and Max Ouput Voltage	0.4
Vin (Max) (V)	6
Vin (Min) (V)	2
Vout	3.5, 3.2, 3, 2.8, 2.5, 2, 1.8, 1.5
Vout (max)	3.5
Vout (min)	1.5

Purchase & Availability

Orderable Part Number	Status	Package	Environmental Compliance	Packing		Request Samples	CAD Model(s)
				Qty.	Carrier		
▼ Obsolete (hide)							
AP2122AK-1.5TRE1	Obsolete	SOT25	TLFP	3000			
AP2122AK-1.8TRE1	Obsolete	SOT25	TLFP	3000			
AP2122AK-2.5TRE1	Obsolete	SOT25	TLFP	3000			
AP2122AK-2.8TRE1	Obsolete	SOT25	TLFP	3000			
AP2122AK-3.0TRE1	Obsolete	SOT25	TLFP	3000			
AP2122AK-3.0TRG1	Obsolete	SOT25	TPGP	3000			
AP2122AK-3.2TRE1	Obsolete	SOT25	TLFP	3000			
AP2122AK-3.3TRE1	Obsolete	SOT25	TLFP	3000			
AP2122AK-3.3TRG1	Obsolete	SOT25	TPGP	3000			

Environmental Compliance Legend:
LFF: Pb-Free Finish and RoHS 5/6
TLFP: Totally Pb-Free Product and RoHS 6/6
LFGP: Pb-free Finish and Green Product, RoHS 5/6 and Halogen Free
TPGP: Totally Pb-Free and Green Product, RoHS 6/6 and Halogen Free
GREEN: Halogen-free and RoHS compliant
RoHS: RoHS compliant but NOT halogen-free

