



**THE DATASHEET OF**  
**AP7343-33W5-7**



## Description

The AP7343 is a low dropout regulator with high output voltage accuracy, low  $R_{DS(ON)}$ , high PSRR, low output noise, and low quiescent current. This regulator is based on a CMOS process.

The AP7343 includes a voltage reference, error amplifier, current limit circuit, and an enable input to turn it on and off. With the integrated resistor network fixed output voltage versions can be delivered.

With its low power consumption and line and load transient response, the AP7343 is well suited for low-power handheld communication equipment.

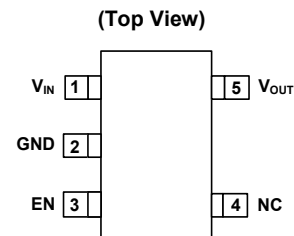
The AP7343 is packaged in the X2-DFN1010-4 (Type B) and SOT25 packages, allowing for the smallest footprint and a dense PCB layout.

## Pin Assignments



**X2-DFN1010-4 (Type B)**

PIN1 –  $V_{OUT}$ , PIN2 – GND, PIN3 – EN, PIN4 –  $V_{IN}$



**SOT25**

## Features

- Low  $V_{IN}$  and Wide  $V_{IN}$  Range: 1.7V to 5.25V
- Guarantee Output Current: 300mA
- $V_{OUT}$  Accuracy  $\pm 1\%$
- Ripple Rejection 75dB at 1kHz
- Low Output Noise, 60 $\mu$ Vrms from 10Hz to 100kHz
- Quiescent Current as Low as 35 $\mu$ A
- $V_{OUT}$  Fixed 0.9V to 3.6V
- Moisture Sensitivity: Level 1 Per J-STD-020
- Terminals:
  - SOT25: Finish - Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 <sup>(e3)</sup>
  - X2-DFN1010-4 (Type B): Finish - NiPdAu over Copper Leads, Solderable per MIL-STD-202, Method 208 <sup>(e4)</sup>
- Weight:
  - SOT25: 0.016 grams (Approximate)
  - X2-DFN1010-4 (Type B): 0.001 grams (Approximate)
- **Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)**
- **Halogen- and Antimony-Free. "Green" Device (Note 3)**
- **For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please [contact us](#) or your local Diodes representative. <https://www.diodes.com/quality/product-definitions/>**

## Applications

- Smart Phone/Tablet
- RF Supply
- Cameras
- Portable Video
- Portable Media Player
- Wireless Adapter
- Wireless Communication

Notes: 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.  
 2. See <https://www.diodes.com/quality/lead-free/> for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.  
 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

**Typical Applications Circuit**



**Pin Descriptions**

Pin Number		Pin Name	Function
X2-DFN1010-4 (Type B)	SOT25		
1	5	V <sub>OUT</sub>	Power Output Pin
2	2	GND	Ground
3	3	EN	Enable Pin This pin should be driven either high or low and must not be floating. Driving this pin high enables the regulator, while pulling it low puts the regulator into shutdown mode
4	1	V <sub>IN</sub>	Power Input Pin
—	4	NC	No connection
EP	—	Exposed Pad	In PCB layout, prefer to use large copper area to cover this pad for better thermal dissipation, then connect this area to GND or leave it open. However, do not use it as GND electrode function alone

**Functional Block Diagram**



AP7343D (With Discharge)



AP7343 (Without Discharge)

### Absolute Maximum Ratings (Note 4) (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Symbol	Parameter	Ratings	Unit
ESD HBM	Human Body Mode ESD Protection	> 2	kV
ESD MM	Machine Mode ESD Protection	> 200	V
$V_{IN}$	Input Voltage	6.0	V
$V_{EN}$	Input Voltage for EN Pin	6.0	V
$V_{OUT}$	Output Voltage	-0.3 to $V_{IN} + 0.3$	V
$I_{OUT}$	Output Current	400	mA
$P_D$	Power Dissipation	400	mW
$T_A$	Operating Ambient Temperature	-40 to +85	$^\circ\text{C}$
$T_J$	Operating Junction Temperature	+125	$^\circ\text{C}$
$T_{STG}$	Storage Temperature	-55 to +125	$^\circ\text{C}$

Notes: 4. Stresses beyond those listed under *Absolute Maximum Ratings* can cause permanent damage to the device. These are stress ratings only and functional operation of the device at these conditions is not implied. Exposure to absolute-maximum-rated conditions for extended period may affect device reliability. Ratings apply to ambient temperature at +25 $^\circ\text{C}$ . The JEDEC High-K board design used to derive this data was a 2 inch  $\times$  2 inch multilayer board with 1oz. internal power and ground planes and 2oz. copper traces on the top and bottom of the board.

### Recommended Operating Conditions (@ $T_A = +25^\circ\text{C}$ , unless otherwise specified.)

Symbol	Parameter	Min	Max	Unit
$V_{IN}$	Input Voltage	1.7	5.25	V
$I_{OUT}$	Output Current	0	300	mA
$T_A$	Operating Ambient Temperature	-40	+85	$^\circ\text{C}$

**Electrical Characteristics** (@  $T_A = +25^\circ\text{C}$ ,  $V_{IN} = V_{OUT} + 1.0\text{V}$ ,  $C_{IN} = C_{OUT} = 1.0\mu\text{F}$ ,  $I_{OUT} = 1.0\text{mA}$ , unless otherwise specified.)

Parameter	Condition		Min	Typ	Max	Unit
Input Voltage	$T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$		1.7	—	5.25	V
Output Voltage Accuracy (Note 11)	$V_{OUT}(T) \geq 2.0\text{V}$ , $V_{IN} = V_{OUT}(T) + 1\text{V}$	$T_A = +25^\circ\text{C}$	$V_{OUT}(T)^*$ 0.99	$V_{OUT}(T)$	$V_{OUT}(T)^*$ 1.01	V
	$V_{OUT}(T) < 2.0\text{V}$ , $V_{IN} = V_{OUT}(T) + 1\text{V}$	$T_A = +25^\circ\text{C}$	$V_{OUT}(T)^*$ -20mV	$V_{OUT}(T)$	$V_{OUT}(T)^*$ +20mV	
Line Regulation ( $dV_{OUT}/dV_{IN}/V_{OUT}$ )	$V_{IN} = (V_{OUT-Nom} + 1.0\text{V})$ to $5.25\text{V}$ , $I_{OUT} = 1.0\text{mA}$		—	0.02	0.1	%/V
Load Regulation	$V_{IN} = V_{OUT-Nom} + 1.0\text{V}$ , $I_{OUT} = 1\text{mA}$ to $300\text{mA}$		—	15	30	mV
Quiescent Current (Note 6)	$I_{OUT} = 0\text{mA}$		—	35	60	$\mu\text{A}$
$I_{STANDBY}$	$V_{EN} = 0\text{V}$ (Disabled)		—	0.01	1.0	$\mu\text{A}$
Output Current	—		300	—	—	mA
Fold-back Short Current (Note 7)	$V_{OUT}$ Short to Ground		—	55	—	mA
PSRR (Note 8)	$V_{IN} = (V_{OUT} + 1\text{V}) V_{DC} + 0.2\text{Vp-pAC}$ , $V_{OUT} \geq 1.8\text{V}$ , $I_{OUT} = 30\text{mA}$	$f = 1\text{kHz}$	—	75	—	dB
Output Noise Voltage (Note 8) (Note 9)	BW = 10Hz to 100kHz, $I_{OUT} = 30\text{mA}$		—	60	—	$\mu\text{Vrms}$
Dropout Voltage (Note 5)	$I_{OUT} = 300\text{mA}$ (X2-DFN1010-4 (Type B))	$V_{OUT} = 0.9\text{V}$	—	0.51	0.80	V
		$1.0\text{V} < V_{OUT} \leq 1.2\text{V}$	—	0.46	0.70	
		$1.2\text{V} < V_{OUT} \leq 1.4\text{V}$	—	0.39	0.58	
		$1.4\text{V} < V_{OUT} \leq 1.7\text{V}$	—	0.35	0.44	
		$1.7\text{V} < V_{OUT} \leq 2.1\text{V}$	—	0.30	0.39	
		$2.1\text{V} < V_{OUT} \leq 2.5\text{V}$	—	0.26	0.34	
		$2.5\text{V} < V_{OUT} \leq 3.0\text{V}$	—	0.25	0.30	
		$3.0\text{V} < V_{OUT} \leq 3.6\text{V}$	—	0.22	0.29	
	$I_{OUT} = 300\text{mA}$ (SOT25)	$V_{OUT} = 0.9\text{V}$	—	0.51	0.82	V
		$1.0\text{V} < V_{OUT} \leq 1.2\text{V}$	—	0.46	0.72	
		$1.2\text{V} < V_{OUT} \leq 1.4\text{V}$	—	0.39	0.60	
		$1.4\text{V} < V_{OUT} \leq 1.7\text{V}$	—	0.35	0.46	
		$1.7\text{V} < V_{OUT} \leq 2.1\text{V}$	—	0.30	0.41	
		$2.1\text{V} < V_{OUT} \leq 2.5\text{V}$	—	0.26	0.36	
Output Voltage Temperature Coefficient	$I_{OUT} = 30\text{mA}$ , $T_A = -40^\circ\text{C}$ to $+85^\circ\text{C}$		—	$\pm 30$	—	ppm/ $^\circ\text{C}$
	Thermal Shutdown Threshold (TSHDN)		—	+150	—	$^\circ\text{C}$
Thermal Shutdown Hysteresis (THYS)		—	—	+20	—	$^\circ\text{C}$
EN Input Low Voltage		—	0	—	0.5	V
EN Input High Voltage		—	1.3	—	5.25	V
EN Input Leakage		$V_{EN} = 0$ , $V_{IN} = 5.0\text{V}$ or $V_{EN} = 5.0\text{V}$ , $V_{IN} = 0\text{V}$	-1.0	—	+1.0	$\mu\text{A}$
On Resistance of N-Channel for Auto-Discharge (Note 10)		$V_{IN} = 4.0\text{V}$ , $V_{EN} = 0\text{V}$ (Disabled)	—	30	—	$\Omega$
Thermal Resistance Junction to Ambient ( $\theta_{JA}$ )	X2-DFN1010-4 (Type B)		—	237	—	$^\circ\text{C/W}$
	SOT25		—	179	—	
Thermal Resistance Junction to Case ( $\theta_{JC}$ )	X2-DFN1010-4 (Type B)		—	96	—	
	SOT25		—	52	—	

- Notes:
- Dropout voltage is the voltage difference between the input and the output at which the output voltage drops 2% below its nominal value.
  - Quiescent current is defined here as the difference in current between the input and the output.
  - Short circuit current is measured with  $V_{OUT}$  pulled to GND.
  - This specification is guaranteed by design.
  - To make sure lowest environment noise minimizes the influence on noise measurement.
  - AP7343 has 2 options for output, built-in discharge and non-discharge.
  - Potential multiple grades based on following output voltage accuracy.

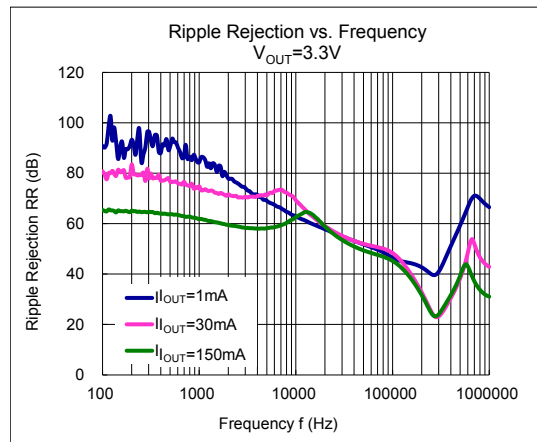
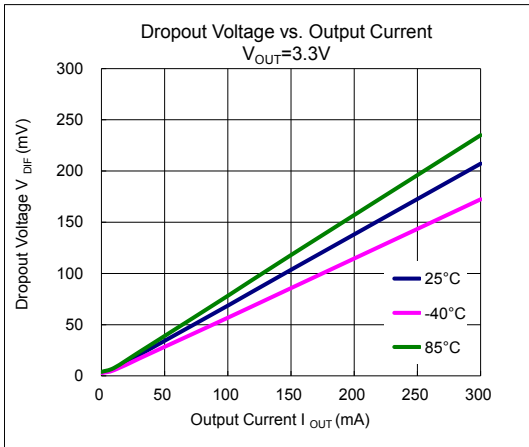
**Typical Characteristics**



**Typical Characteristics** (continued)



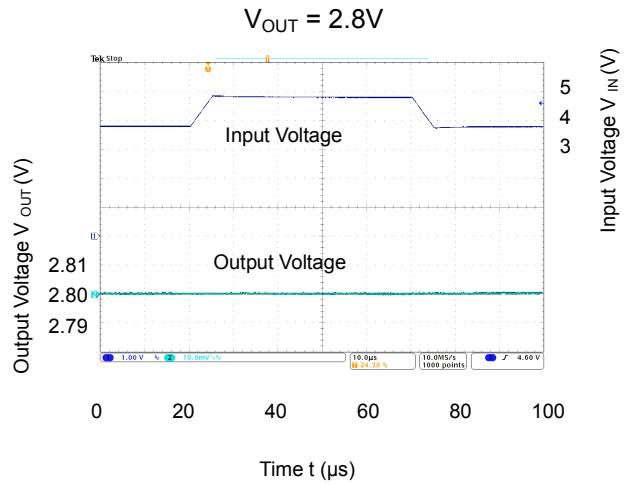
**Typical Characteristics** (continued)



**Typical Characteristics** (continued)



Line Transient Response Waveforms ( $I_{OUT} = 30mA$ ,  $t_R = t_F = 5\mu s$ ,  $C_{IN} = \text{None}$ ,  $C_{OUT1} = C_{OUT2} = 1\mu F$ ,  $T_A = +25^\circ C$ )



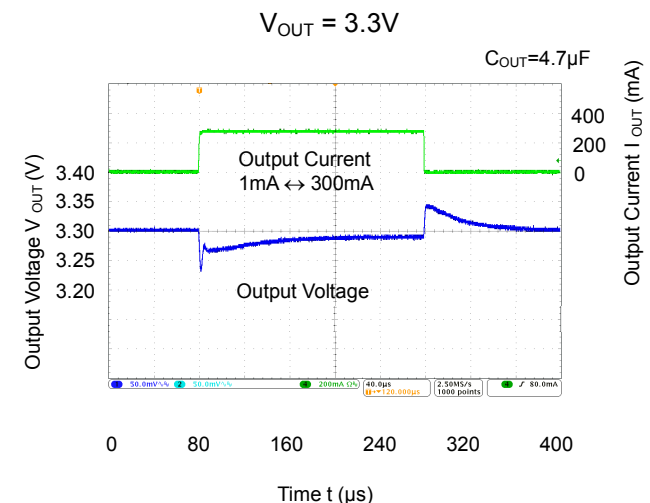
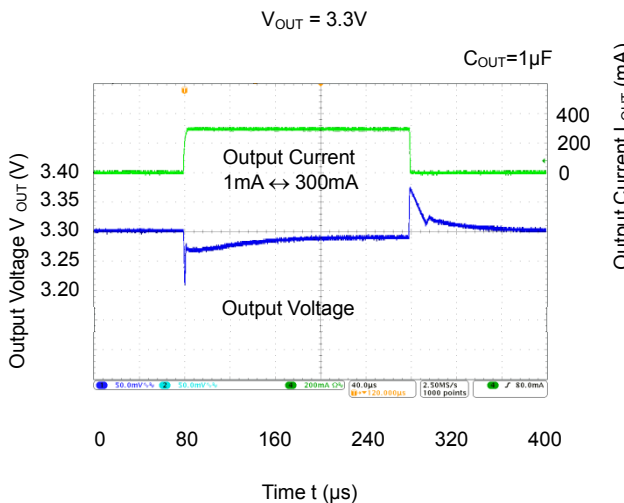
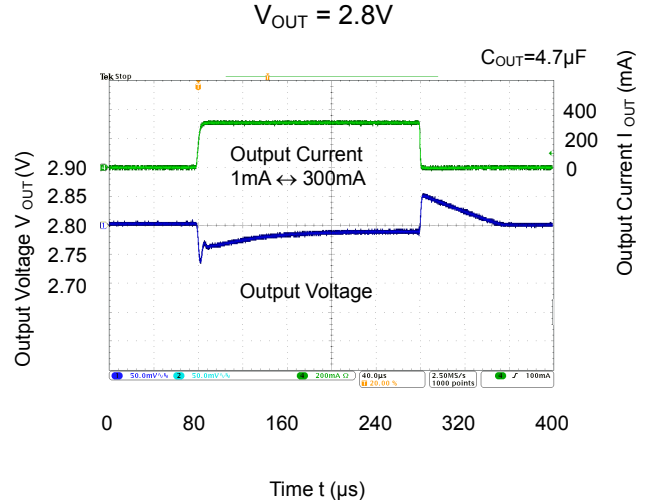
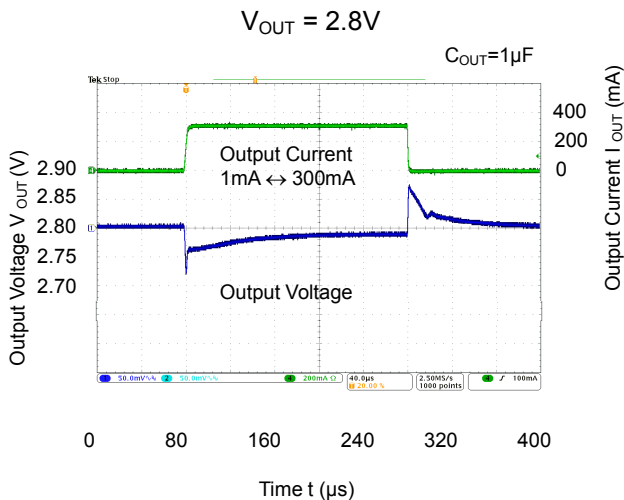
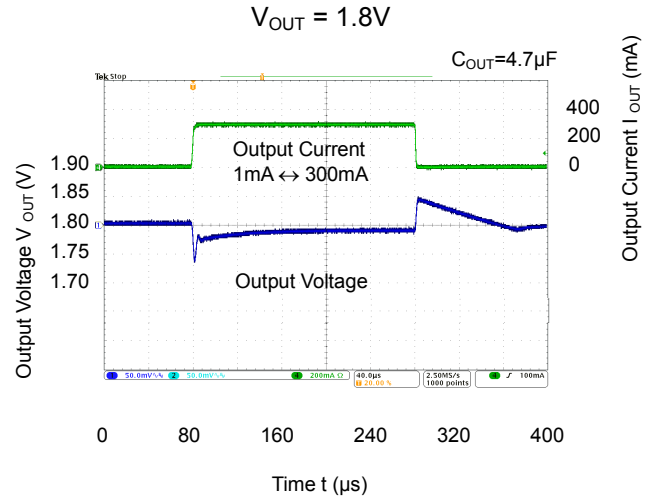
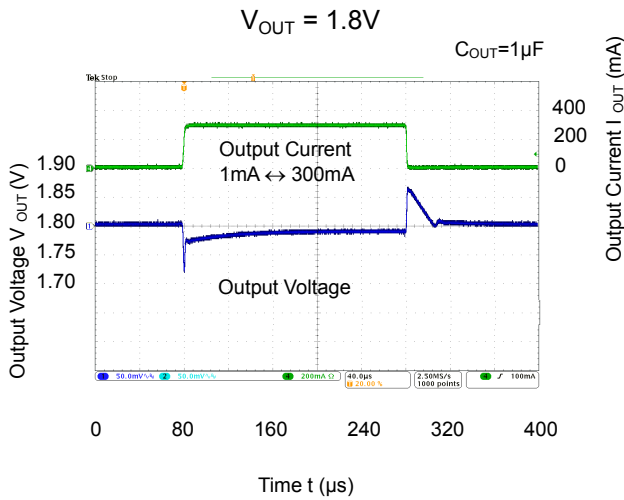
**Typical Characteristics** (continued)

Load Transient Response Waveforms ( $V_{IN} = V_{OUT} + 1V$ ,  $C_{IN} = 1\mu F$ ,  $T_A = +25^\circ C$ )



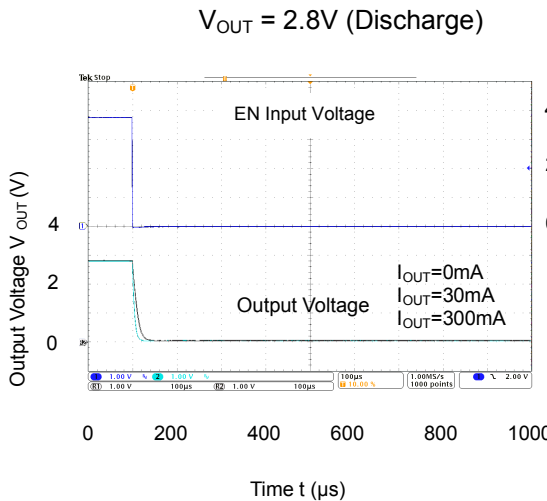
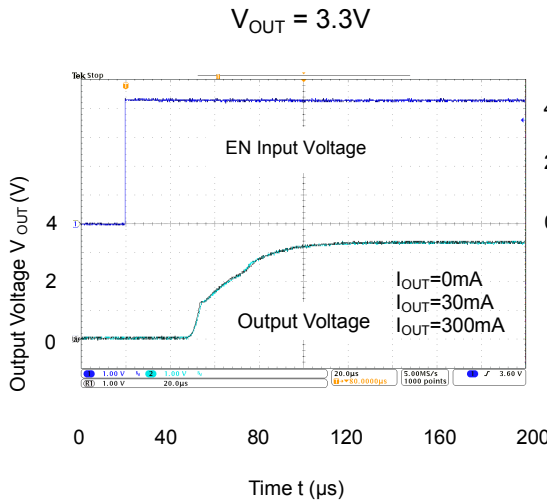
**Typical Characteristics** (continued)

Load Transient Response Waveforms ( $V_{IN} = V_{OUT} + 1V$ ,  $C_{IN} = 1\mu F$ ,  $T_A = +25^\circ C$ )



**Typical Characteristics** (continued)

Turn On & Off Waveforms ( $V_{IN} = V_{OUT} + 1V$ ,  $C_{IN} = 1\mu F$ ,  $C_{OUT} = 1\mu F$ ,  $T_A = +25^\circ C$ )



## Application Information

### Output Capacitor

An output capacitor ( $C_{OUT}$ ) is needed to improve transient response and maintain stability. The AP7343 is stable with very small ceramic output capacitors. The ESR (equivalent series resistance) and capacitance drive the selection. If the application has large load variations, it is recommended to utilize low-ESR bulk capacitors. It is recommended to place ceramic capacitors as close as possible to the load and the ground pin, and care should be taken to reduce the impedance in the layout.

### Input Capacitor

To prevent the input voltage from dropping during load steps, it is recommended to utilize an input capacitor ( $C_{IN}$ ). A minimum 0.47 $\mu$ F ceramic capacitor is recommended between  $V_{IN}$  and GND pins to decouple input power supply glitch. This input capacitor must be located as close as possible to the device to assure input stability and reduce noise. For PCB layout, a wide copper trace is required for both  $V_{IN}$  and GND pins.

### Enable Control

The AP7343 is turned on by setting the EN pin high, and is turned off by pulling it low. If this feature is not used, the EN pin should be tied to the  $V_{IN}$  pin to keep the regulator output on at all times. To ensure proper operation, the signal source used to drive the EN pin must be able to swing above and below the specified turn-on/off voltage thresholds listed in the Electrical Characteristics section.

### Short Circuit Protection

When  $V_{OUT}$  pin is short-circuit to GND, short circuit protection will be triggered and clamp the output current to approximately 60mA. This feature protects the regulator from overcurrent and damage due to overheating.

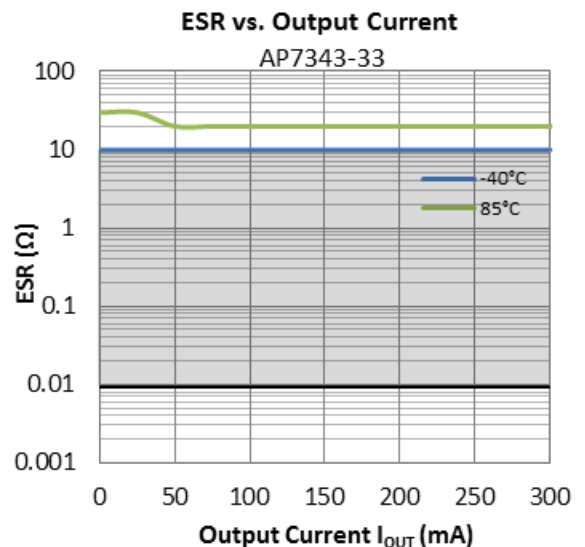
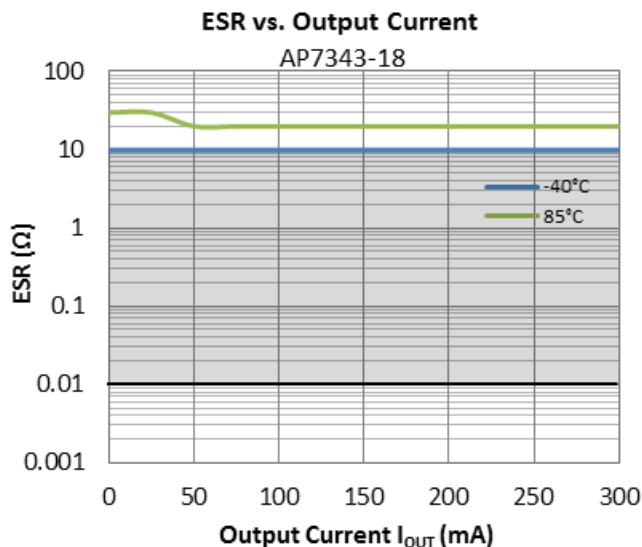
### Layout Considerations

For good ground loop and stability, the input and output capacitors should be located close to the input, output, and ground pins of the device. The regulator ground pin should be connected to the external circuit ground to reduce voltage drop caused by trace impedance. Ground plane is generally used to reduce trace impedance. Wide trace should be used for large current paths from  $V_{IN}$  to  $V_{OUT}$ , and load circuit.

## ESR vs. Output Current

A ceramic-type output capacitor is recommended for this series; however, other output capacitors with low ESR may be used. The relationship between the  $I_{OUT}$  (Output Current) and the ESR of an output capacitor are shown below. The stable region is marked as the hatched area in the graph.

Measurement conditions: Frequency Band: 10Hz to 2MHz, Temperature: -40°C to +85°C.



---

**Ordering Information** (Note 12)
 

---



Part Number	Package Code	Packaging	7" Tape and Reel	
			Quantity	Part Number Suffix
AP7343-XXXFS4-7B	FS4	X2-DFN1010-4 (Type B)	10,000/Tape & Reel	-7B
AP7343D-XXXFS4-7B	FS4	X2-DFN1010-4 (Type B)	10,000/Tape & Reel	-7B
AP7343D-XXXFS4-7	FS4	X2-DFN1010-4 (Type B)	5,000/Tape & Reel	-7
AP7343-XXXW5-7	W5	SOT25	3,000/Tape & Reel	-7
AP7343D-XXXW5-7	W5	SOT25	3,000/Tape & Reel	-7

Note: 12. For packaging details, go to our website at <https://www.diodes.com/design/support/packaging/diodes-packaging/>.

## Marking Information

(1) X2-DFN1010-4 (Type B)

(Top View)



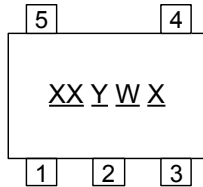
XX : Identification Code  
Y : Year : 0~9  
W : Week : A~Z : 1~26 week;  
           a~z : 27~52 week; z represents  
           52 and 53 week  
X : A~Z : Internal code

Part Number	Package	Identification Code
AP7343-09FS4-7B	X2-DFN1010-4 (Type B)	7B
AP7343-10FS4-7B	X2-DFN1010-4 (Type B)	7C
AP7343-105FS4-7B	X2-DFN1010-4 (Type B)	7D
AP7343-11FS4-7B	X2-DFN1010-4 (Type B)	7E
AP7343-12FS4-7B	X2-DFN1010-4 (Type B)	7F
AP7343-135FS4-7B	X2-DFN1010-4 (Type B)	7G
AP7343-15FS4-7B	X2-DFN1010-4 (Type B)	7H
AP7343-18FS4-7B	X2-DFN1010-4 (Type B)	7J
AP7343-185FS4-7B	X2-DFN1010-4 (Type B)	7K
AP7343-22FS4-7B	X2-DFN1010-4 (Type B)	7M
AP7343-25FS4-7B	X2-DFN1010-4 (Type B)	7N
AP7343-28FS4-7B	X2-DFN1010-4 (Type B)	7P
AP7343-285FS4-7B	X2-DFN1010-4 (Type B)	7R
AP7343-295FS4-7B	X2-DFN1010-4 (Type B)	7S
AP7343-30FS4-7B	X2-DFN1010-4 (Type B)	7T
AP7343-31FS4-7B	X2-DFN1010-4 (Type B)	7U
AP7343-32FS4-7B	X2-DFN1010-4 (Type B)	7V
AP7343-33FS4-7B	X2-DFN1010-4 (Type B)	7W
AP7343D-09FS4-7B	X2-DFN1010-4 (Type B)	8B
AP7343D-10FS4-7B	X2-DFN1010-4 (Type B)	8C
AP7343D-105FS4-7B	X2-DFN1010-4 (Type B)	8D
AP7343D-11FS4-7B	X2-DFN1010-4 (Type B)	8E
AP7343D-12FS4-7B	X2-DFN1010-4 (Type B)	8F
AP7343D-13FS4-7B	X2-DFN1010-4 (Type B)	8G
AP7343D-135FS4-7B	X2-DFN1010-4 (Type B)	8H
AP7343D-14FS4-7B	X2-DFN1010-4 (Type B)	8J
AP7343D-15FS4-7B	X2-DFN1010-4 (Type B)	8K
AP7343D-16FS4-7B	X2-DFN1010-4 (Type B)	8M
AP7343D-17FS4-7B	X2-DFN1010-4 (Type B)	8N
AP7343D-18FS4-7B	X2-DFN1010-4 (Type B)	8P
AP7343D-185FS4-7B	X2-DFN1010-4 (Type B)	8R
AP7343D-19FS4-7B	X2-DFN1010-4 (Type B)	8S
AP7343D-20FS4-7B	X2-DFN1010-4 (Type B)	8T
AP7343D-21FS4-7B	X2-DFN1010-4 (Type B)	8U
AP7343D-22FS4-7B	X2-DFN1010-4 (Type B)	8V
AP7343D-23FS4-7B	X2-DFN1010-4 (Type B)	8W
AP7343D-25FS4-7B	X2-DFN1010-4 (Type B)	8X
AP7343D-26FS4-7B	X2-DFN1010-4 (Type B)	8Y
AP7343D-27FS4-7B	X2-DFN1010-4 (Type B)	8Z
AP7343D-28FS4-7B	X2-DFN1010-4 (Type B)	6J
AP7343D-285FS4-7B	X2-DFN1010-4 (Type B)	6K
AP7343D-29FS4-7B	X2-DFN1010-4 (Type B)	6M
AP7343D-295FS4-7B	X2-DFN1010-4 (Type B)	6N
AP7343D-30FS4-7B	X2-DFN1010-4 (Type B)	6P
AP7343D-31FS4-7B	X2-DFN1010-4 (Type B)	6R
AP7343D-32FS4-7B	X2-DFN1010-4 (Type B)	6S
AP7343D-33FS4-7B	X2-DFN1010-4 (Type B)	6T
AP7343D-34FS4-7B	X2-DFN1010-4 (Type B)	6U
AP7343D-35FS4-7B	X2-DFN1010-4 (Type B)	6V
AP7343D-36FS4-7B	X2-DFN1010-4 (Type B)	6W
AP7343D-12FS4-7	X2-DFN1010-4 (Type B)	8F
AP7343D-18FS4-7	X2-DFN1010-4 (Type B)	8P
AP7343D-28FS4-7	X2-DFN1010-4 (Type B)	6J

**Marking Information** (continued)

(2) SOT25

(Top View)



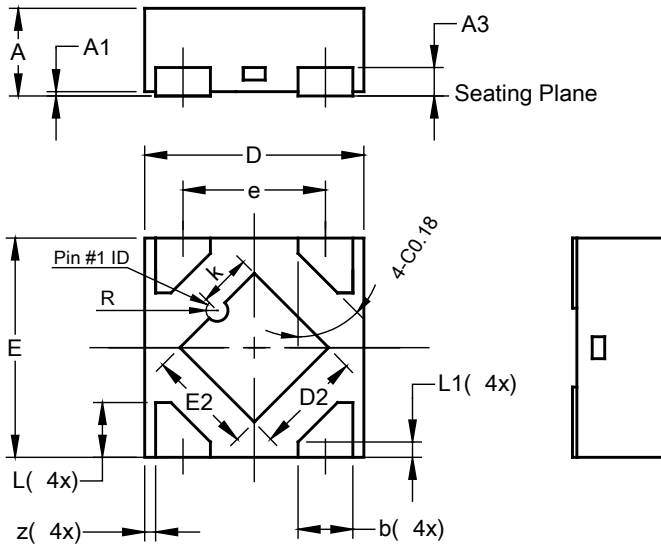
XX : Identification Code  
 Y : Year 0 to 9  
 W : Week : A to Z : 1 to 26 week;  
       a to z : 27 to 52 week; z represents  
       52 and 53 week  
 X : Internal Code

Part Number	Package Type	Identification Code
AP7343-09W5-7	SOT25	7B
AP7343-10W5-7	SOT25	7C
AP7343-105W5-7	SOT25	7D
AP7343-11W5-7	SOT25	7E
AP7343-12W5-7	SOT25	7F
AP7343-135W5-7	SOT25	7G
AP7343-15W5-7	SOT25	7H
AP7343-18W5-7	SOT25	7J
AP7343-185W5-7	SOT25	7K
AP7343-22W5-7	SOT25	7M
AP7343-25W5-7	SOT25	7N
AP7343-28W5-7	SOT25	7P
AP7343-285W5-7	SOT25	7R
AP7343-295W5-7	SOT25	7S
AP7343-30W5-7	SOT25	7T
AP7343-31W5-7	SOT25	7U
AP7343-32W5-7	SOT25	7V
AP7343-33W5-7	SOT25	7W
AP7343D-09W5-7	SOT25	8B
AP7343D-10W5-7	SOT25	8C
AP7343D-105W5-7	SOT25	8D
AP7343D-11W5-7	SOT25	8E
AP7343D-12W5-7	SOT25	8F
AP7343D-13W5-7	SOT25	8G
AP7343D-135W5-7	SOT25	8H
AP7343D-14W5-7	SOT25	8J
AP7343D-15W5-7	SOT25	8K
AP7343D-16W5-7	SOT25	8M
AP7343D-17W5-7	SOT25	8N
AP7343D-18W5-7	SOT25	8P
AP7343D-185W5-7	SOT25	8R
AP7343D-19W5-7	SOT25	8S
AP7343D-20W5-7	SOT25	8T
AP7343D-21W5-7	SOT25	8U
AP7343D-22W5-7	SOT25	8V
AP7343D-23W5-7	SOT25	8W
AP7343D-25W5-7	SOT25	8X
AP7343D-26W5-7	SOT25	8Y
AP7343D-27W5-7	SOT25	8Z
AP7343D-28W5-7	SOT25	6J
AP7343D-285W5-7	SOT25	6K
AP7343D-29W5-7	SOT25	6M
AP7343D-295W5-7	SOT25	6N
AP7343D-30W5-7	SOT25	6P
AP7343D-31W5-7	SOT25	6R
AP7343D-32W5-7	SOT25	6S
AP7343D-33W5-7	SOT25	6T
AP7343D-34W5-7	SOT25	6U
AP7343D-35W5-7	SOT25	6V
AP7343D-36W5-7	SOT25	6W

**Package Outline Dimensions**

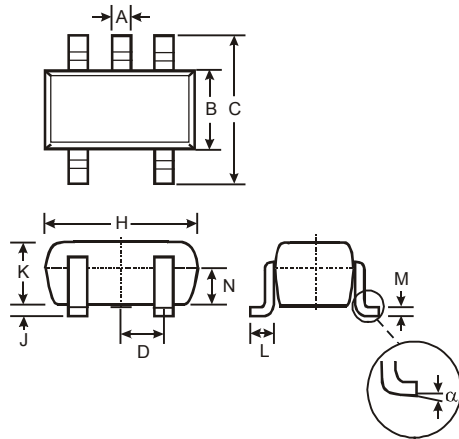
Please see <http://www.diodes.com/package-outlines.html> for the latest version.

**(1) X2-DFN1010-4 (Type B)**



X2-DFN1010-4 (Type B)			
Dim	Min	Max	Typ
A	-	0.40	0.39
A1	0.00	0.05	0.02
A3	-	-	0.13
b	0.20	0.30	0.25
D	0.95	1.05	1.00
D2	0.43	0.53	0.48
E	0.95	1.05	1.00
E2	0.43	0.53	0.48
e	-	-	0.65
k	0.19	0.29	0.24
L	0.20	0.30	0.25
L1	0.02	0.12	0.07
R	0.02	0.08	0.05
z	-	-	0.050
All Dimensions in mm			

**(2) SOT25**



SOT25			
Dim	Min	Max	Typ
A	0.35	0.50	0.38
B	1.50	1.70	1.60
C	2.70	3.00	2.80
D	-	-	0.95
H	2.90	3.10	3.00
J	0.013	0.10	0.05
K	1.00	1.30	1.10
L	0.35	0.55	0.40
M	0.10	0.20	0.15
N	0.70	0.80	0.75
α	0°	8°	-
All Dimensions in mm			

**Suggested Pad Layout**

Please see <http://www.diodes.com/package-outlines.html> for the latest version.

(1) X2-DFN1010-4 (Type B)



Dimensions	Value (in mm)
C	0.650
X	0.350
X1	0.112
X2	0.530
X3	1.00
Y	0.350
Y1	0.530
Y2	1.100

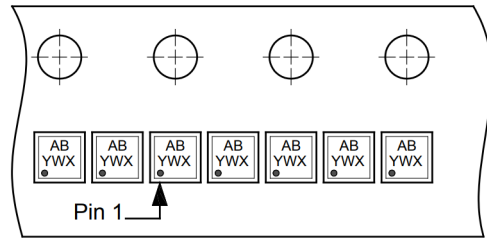
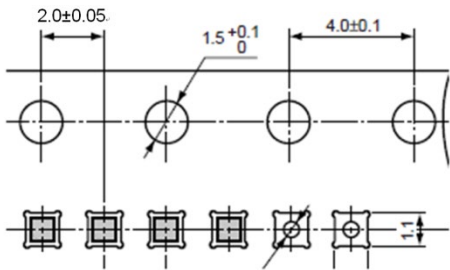
(2) SOT25



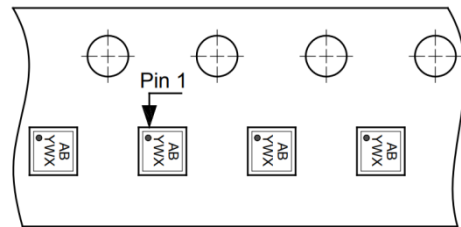
Dimensions	Value
Z	3.20
G	1.60
X	0.55
Y	0.80
C1	2.40
C2	0.95

**Tape Orientation** (Note 13)

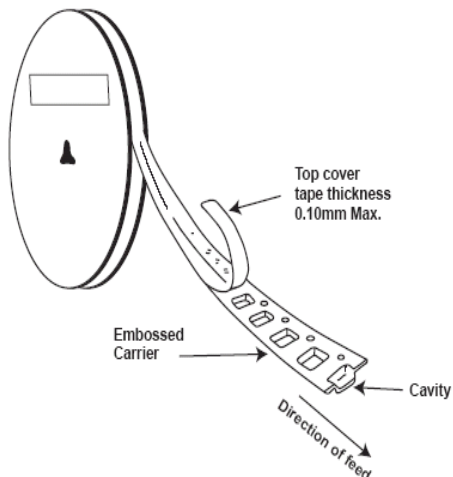
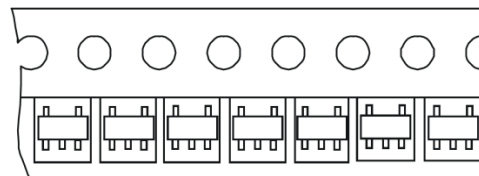
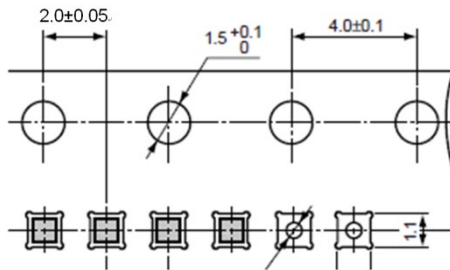
For AP7343-XXXFS4-7B & AP7343D-XXXFS4-7B



For AP7343D-XXXFS4-7



For AP7343-XXXW5-7 & AP7343D-XXXW5-7



Note: 13. The taping orientation of other package types can be found on our website at <http://www.diodes.com/package-outlines.html>.

**IMPORTANT NOTICE**

1. DIODES INCORPORATED AND ITS SUBSIDIARIES (“DIODES”) MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARDS TO ANY INFORMATION CONTAINED IN THIS DOCUMENT, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS (AND THEIR EQUIVALENTS UNDER THE LAWS OF ANY JURISDICTION).
2. The Information contained herein is for informational purpose only and is provided only to illustrate the operation of Diodes products described herein and application examples. Diodes does not assume any liability arising out of the application or use of this document or any product described herein. This document is intended for skilled and technically trained engineering customers and users who design with Diodes products. Diodes products may be used to facilitate safety-related applications; however, in all instances customers and users are responsible for (a) selecting the appropriate Diodes products for their applications, (b) evaluating the suitability of the Diodes products for their intended applications, (c) ensuring their applications, which incorporate Diodes products, comply the applicable legal and regulatory requirements as well as safety and functional-safety related standards, and (d) ensuring they design with appropriate safeguards (including testing, validation, quality control techniques, redundancy, malfunction prevention, and appropriate treatment for aging degradation) to minimize the risks associated with their applications.
3. Diodes assumes no liability for any application-related information, support, assistance or feedback that may be provided by Diodes from time to time. Any customer or user of this document or products described herein will assume all risks and liabilities associated with such use, and will hold Diodes and all companies whose products are represented herein or on Diodes’ websites, harmless against all damages and liabilities.
4. Products described herein may be covered by one or more United States, international or foreign patents and pending patent applications. Product names and markings noted herein may also be covered by one or more United States, international or foreign trademarks and trademark applications. Diodes does not convey any license under any of its intellectual property rights or the rights of any third parties (including third parties whose products and services may be described in this document or on Diodes’ website) under this document.
5. Diodes products are provided subject to Diodes’ Standard Terms and Conditions of Sale (<https://www.diodes.com/about/company/terms-and-conditions/terms-and-conditions-of-sales/>) or other applicable terms. This document does not alter or expand the applicable warranties provided by Diodes. Diodes does not warrant or accept any liability whatsoever in respect of any products purchased through unauthorized sales channel.
6. Diodes products and technology may not be used for or incorporated into any products or systems whose manufacture, use or sale is prohibited under any applicable laws and regulations. Should customers or users use Diodes products in contravention of any applicable laws or regulations, or for any unintended or unauthorized application, customers and users will (a) be solely responsible for any damages, losses or penalties arising in connection therewith or as a result thereof, and (b) indemnify and hold Diodes and its representatives and agents harmless against any and all claims, damages, expenses, and attorney fees arising out of, directly or indirectly, any claim relating to any noncompliance with the applicable laws and regulations, as well as any unintended or unauthorized application.
7. While efforts have been made to ensure the information contained in this document is accurate, complete and current, it may contain technical inaccuracies, omissions and typographical errors. Diodes does not warrant that information contained in this document is error-free and Diodes is under no obligation to update or otherwise correct this information. Notwithstanding the foregoing, Diodes reserves the right to make modifications, enhancements, improvements, corrections or other changes without further notice to this document and any product described herein. This document is written in English but may be translated into multiple languages for reference. Only the English version of this document is the final and determinative format released by Diodes.
8. Any unauthorized copying, modification, distribution, transmission, display or other use of this document (or any portion hereof) is prohibited. Diodes assumes no responsibility for any losses incurred by the customers or users or any third parties arising from any such unauthorized use.

Copyright © 2021 Diodes Incorporated

[www.diodes.com](http://www.diodes.com)

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View AP7343-33W5-7 on WIN SOURCE](#)

 [Diodes Incorporated Information](#)

## Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management