



AP7366EA

600mA, LOW QUIESCENT CURRENT FAST TRANSIENT LOW DROPOUT LINEAR REGULATOR

Description

The DIODES™ AP7366EA is a 600mA, adjustable and fixed output voltage, low dropout linear regulator. This device includes pass element, error amplifier, band-gap, current limit and thermal shutdown circuitry. The device is turned on when EN pin is set to logic high level.

The characteristics of low dropout voltage and low quiescent current make it suitable for low power applications such as battery powered devices. The typical quiescent current is approximately 60μ A. Built-in current-limit and thermal-shutdown functions prevent IC from damage in fault conditions.

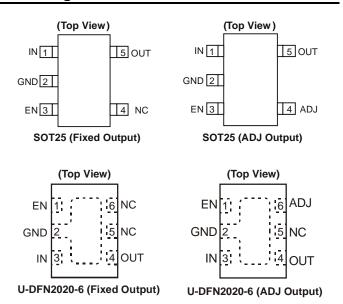
This device is available with adjustable output from 0.8V to 5.0V, and fixed version with 1.0V, 1.2V, 1.5V, 1.8V, 2.0V, 2.5V, 2.8V, 3.0V, 3.3V, 3.6V and 3.9V outputs. Please contact your local sales office for other voltage options.

The AP7366EA is available in SOT25 and U-DFN2020-6 packages.

Features

- 600mA Low Dropout Regulator with EN
- Low I_Q: 60μA
- Wide Input Voltage Range: 2.2V to 6V
- Wide Adjustable Output: 0.8V to 5.0V
- Fixed Output Options: 1.0V, 1.2V, 1.5V, 1.8V, 2.0V, 2.5V, 2.8V, 3.0V, 3.3V, 3.6V, 3.9V
- High PSRR: 75dB at 1kHz
- Fast Start-up Time: 150µs
- Stable with Low ESR, 1µF Ceramic Output Capacitor
- Excellent Load/Line Transient Response
- Low Dropout: 300mV at 600mA
- Current Limit and Short Circuit Protection
- Thermal Shutdown Protection
- Ambient Temperature Range: -40°C to +85°C
- 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-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please contact us or your local Diodes representative. https://www.diodes.com/quality/product-definitions/

Pin Assignments



Applications

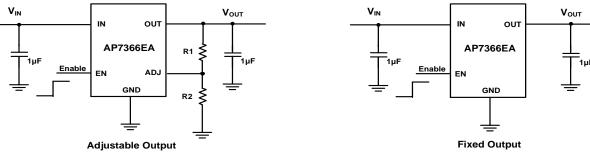
- Servers and notebook computers
- · Low and medium power applications
- FPGA and DSP cores or I/O powers
- Consumer electronics

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

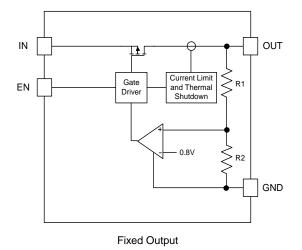


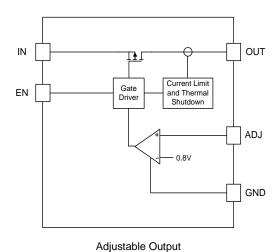
$$V_{OUT} = V_{REF} \left(1 + \frac{R_1}{R_2} \right) \text{ where } R_2 \le 80 \text{k} \Omega$$

Pin Descriptions

	Pin Number				
Pin Name	SOT25 (Fixed Output)	SOT25 (ADJ Output)	U-DFN2020-6 (Fixed Output)	U-DFN2020-6 (ADJ Output)	Functions
IN	1	1	3	3	Voltage Input Pin. Bypass to ground through at least 1µF MLCC capacitor
GND	2	2	2	2	Ground
EN	3	3	1	1	Enable Input, Active High
ADJ	_	4	_	6	Output Feedback Pin
NC	4	_	5, 6	5	No Internal Connection. Leaving this pin floating does not affect the chip functionality.
OUT	5	5	4	4	Voltage Output Pin. Bypass to ground through 1µF MLCC capacitor

Functional Block Diagram







Absolute Maximum Ratings (@TA = +25°C, unless otherwise specified.)

Symbol	Parameter	Ratings	Unit
ESD HBM	Human Body Model ESD Protection	2000	V
ESD CDM	Charge Device Model	±1000	V
Vin	Input Voltage	6.5	V
_	OUT, EN Voltage	V _{IN} +0.3	V
T _{ST}	Storage Temperature Range	-65 to +150	°C
TJ	Maximum Junction Temperature	+150	°C

Recommended Operating Conditions (@T_A = +25°C, unless otherwise specified.)

Symbol	Parameter	Min	Max	Unit
V _{IN}	Input Voltage	2.2	6	V
Vout	Output Voltage	0.8	5	V
Гоит	Output Current (Note 4)	0	600	mA
TA	Operating Ambient Temperature	-40	+85	°C

Note: 4. The device maintains a stable, regulated output voltage without a load current.



$\hline \textbf{Electrical Characteristics} \ (@TA = +25^{\circ}C, \ V_{IN} = V_{OUT} + 1V, \ C_{OUT} = 1 \mu F, \ C_{IN} = 1 \mu F, \ V_{EN} = V_{IN}, \ unless \ otherwise \ specified.)$

Symbol	Parameter	Test C	onditions	Min	Тур	Max	Unit
VREF	ADJ Reference Voltage (Adjustable Version)	Iout = 10mA		0.788	0.8	0.812	V
I _{ADJ}	ADJ Leakage (Adjustable Version)	_		_	0.1	0.5	μA
IQ	Input Quiescent Current	VEN = VIN, IOUT = 0mA		_	60	80	μA
		1.0V ≤ Vouт < 1.5V		V _{OUT} - 0.015	Vouт	V _{OUT} + 0.015	V
Vouт	Output Voltage Accuracy	Iout = 10mA	1.5V ≤ V _{OUT} ≤ 3.9V	V _{ОUТ} * 0.99	Vouт	Vоит * 1.01	%
ISHDN	Input Shutdown Current	$V_{EN} = 0V$, $I_{OUT} = 0$	mA	-1.0	0.05	1.0	μΑ
ΔVουτ		$V_{IN} = (V_{OUT} + 1V)$	$T_A = +25^{\circ}C$	_	0.01	0.1	
/ΔVIN/Vout	Line Regulation	to 5.5V I _{OUT} = 10mA	-40°C ≤ T _A ≤ +85°C	_	_	0.2	%/V
Ανουτ/νουτ	Load Regulation	Iout = 1mA to	1.2V < Vout ≤ 3.9V	-1.0	_	+1.0	%
A V 001/ V 001	25dd Mogdialion	600mA	1.0V ≤ V _{OUT} ≤ 1.2V	-1.5	_	+1.5	,,,
		Vout = 1.0V, lout =	= 300mA	_	650	900	
		Vout = 1.2V, lout =	= 300mA	_	480	700	
		Vout = 1.5V, lout =	= 300mA	_	200	340	
		$V_{OUT} = 1.8V, I_{OUT} =$	= 300mA	_	160	250	
		Vout = 2.0V, lout =	= 300mA	_	140	200	
VDROPOUT	Dropout Voltage (Note 5)	Vout = 2.5V, lout =	= 300mA	_	125	190	mV
		V _{OUT} = 2.8V, I _{OUT} = 300mA		_	115	180	
		Vout = 3.0V, Iout = 300mA		_	110	170	
		Vout = 3.3V, Iout = 300mA		_	105	160	
		Vout = 3.6V, Iout = 300mA		_	105	160	
		$V_{OUT} = 3.9V$, $I_{OUT} = 300$ mA		_	100	150	
		Vout = 1.0V, lout =	= 600mA	_	850	1200	
		Vout = 1.2V, lout =	= 600mA	_	800	1000	
		V _{OUT} = 1.5V, I _{OUT} = 600mA V _{OUT} = 1.8V, I _{OUT} = 600mA		_	450	700	mV
				_	320	420	
		Vout = 2.0V, Iout = 600mA		_	285	400	
VDROPOUT	Dropout Voltage (Note 5)	Vout = 2.5V, lout = 600mA		_	250	380	
		V _{OUT} = 2.8V, I _{OUT} =	= 600mA	_	230	350	
		Vout = 3.0V, lout =	= 600mA	_	220	330	
		Vout = 3.3V, lout =	= 600mA	_	210	320	
		Vout = 3.6V, lout =	= 600mA	_	210	320	
		V _{OUT} = 3.9V, I _{OUT} =		_	190	290	
		f = 1kHz, Iout = 10		_	75	_	dB
PSRR	PSRR (Note 6)	f = 10kHz, I _{OUT} = 1		_	55		dB
Ishort	Short-Circuit Current	VIN = VOUT + 1V Output Voltage < 15% of VouT		_	250	_	mA
tsт	Start-up Time	Output Voltage < 15% of VouT $V_{OUT} = 0V$ to 3.0V $R_L = 30\Omega$		_	150	_	μs
ILIMIT	Current Limit	VIN = VOUT + 1V		0.66	1.0	_	Α
VIL	EN Input Logic Low Voltage	VIN = VIN-Min to VIN-	-Max	_	_	0.3	V
VIH	EN Input Logic High Voltage	$V_{IN} = V_{IN-Min}$ to V_{IN}		1.0	_	V _{IN}	V
IEN	EN Input Leakage Current	V _{IN} = 5.5V or V _{EN} =		-0.1	_	+0.1	μA
TSHDN	Thermal Shutdown Threshold		~ .	_	+150	_	°C
THYS	Thermal Shutdown Hysteresis	<u> </u>		_	+20	_	°C
INIO	Thomas Grataowii Flystorosis	_			120		U

Notes:

^{5.} Dropout voltage is the voltage difference between the input and the output at which the output voltage drops 2% below its nominal value. This parameter only applies to input voltages above minimum V_{IN} = 2.2V.

^{6.} At V_{IN} < 2.3V, the PSRR performance may be reduced.



Electrical Characteristics (continued) (@ $T_A = +25^{\circ}C$, $V_{IN} = V_{OUT} +1V$, $C_{OUT} = 1\mu F$, $C_{IN} = 1\mu F$, $V_{EN} = V_{IN}$, unless otherwise specified.)

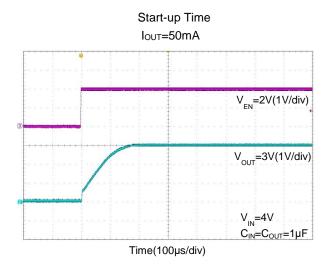
Symbol	Parameter	Test Conditions	Min	Тур	Max	Unit
RENPD	EN Pull-Down Resistor	_	_	3	_	ΜΩ
R _{PD}	Output Discharge Resistor	Vol = 1V	_	100	_	Ω
ΔVout /ΔT _A /V _{OUT}	Output Voltage Temperature Coefficient	I _{OUT} = 100mA, -40°C ≤ T _A ≤ +85°C	_	±100	_	ppm/°C
0	Thermal Resistance Junction-to-Ambient (Note 7)	SOT25	_	139	_	°C/W
θ JA	Thermal Resistance Junction-to-Ambient (Note 7)	U-DFN2020-6	_	46.2	_	C/VV
0.10	Thermal Begintenes, Junation to Cose (Note 7)	SOT25	_	38.8	_	°C/W
θЈС	Thermal Resistance Junction-to-Case (Note 7)	U-DFN2020-6	_	13	_	C/VV

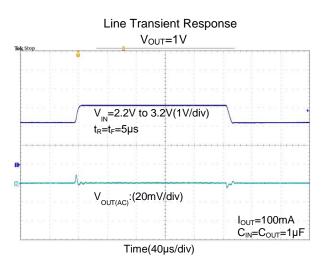
Note:

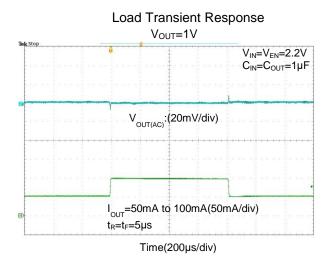
^{7.} Ratings apply to ambient temperature at +25°C. The JEDEC STD.51 High-K board design used to derive this data was a 3 inch x 3 inch multilayer board with 1oz. internal power and ground planes and 2oz. copper traces on the top and bottom of the board.

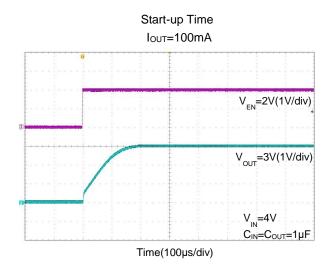


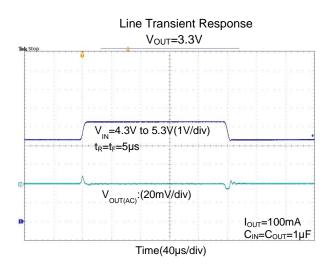
Typical Performance Characteristics

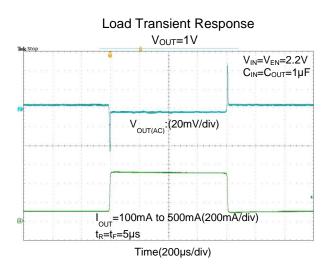






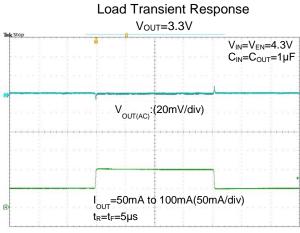




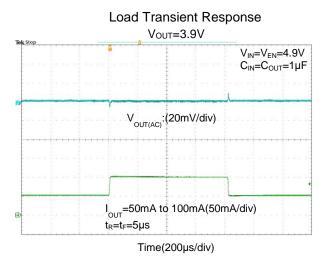




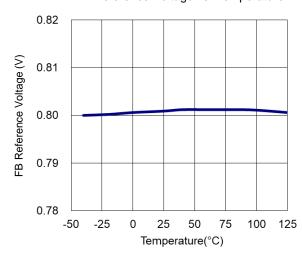
Typical Performance Characteristics (continued)



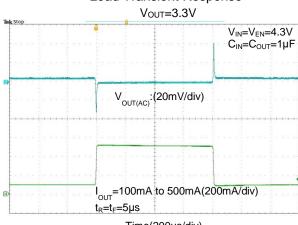




FB Reference Voltage vs. Temperature

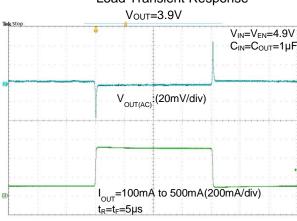


Load Transient Response

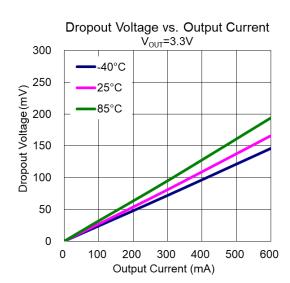


Time(200µs/div)

Load Transient Response

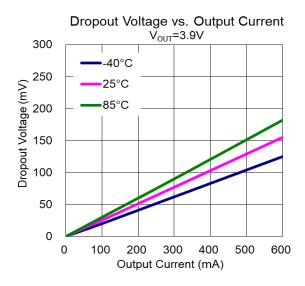


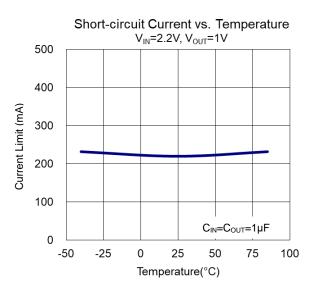
Time(200µs/div)

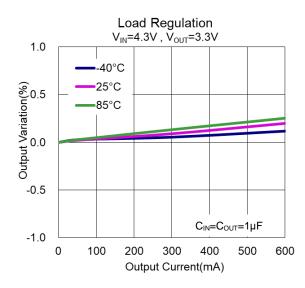


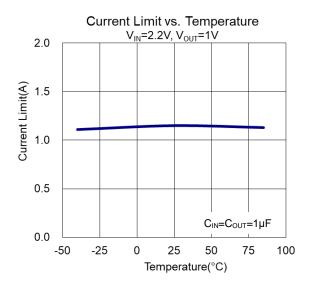


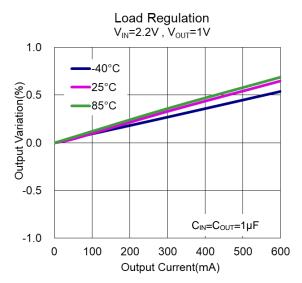
Typical Performance Characteristics (continued)

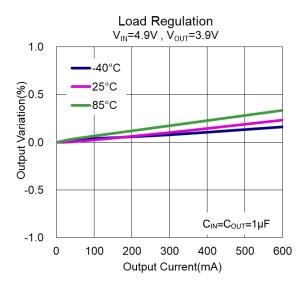






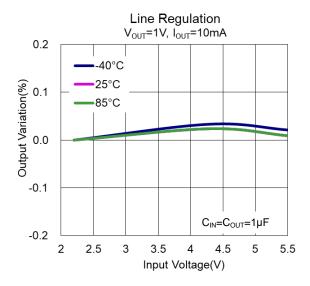


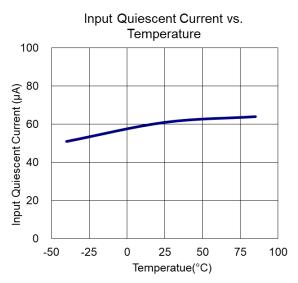


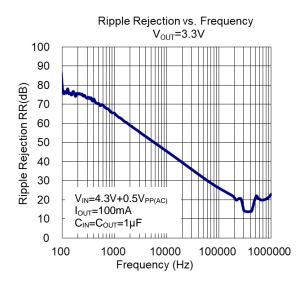


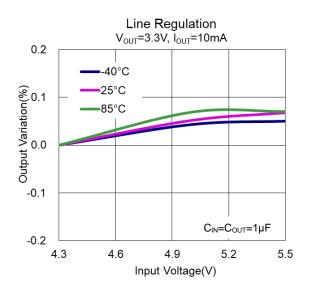


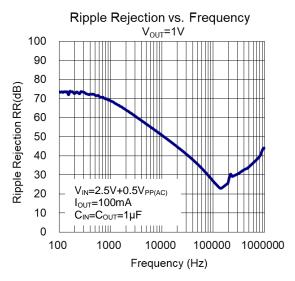
Typical Performance Characteristics (continued)

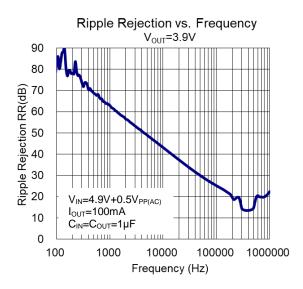














Application Information

Input Capacitor

A 1µF ceramic capacitor is recommended between IN and GND pins to decouple input power supply glitch and noise. The amount of the capacitance may be increased without limit. This input capacitor must be located as close as possible to the device to ensure input stability and reduce noise. For PCB layout, a wide copper trace is required for both IN and GND pins. A lower ESR capacitor type allows the use of less capacitance, while higher ESR type requires more capacitance.

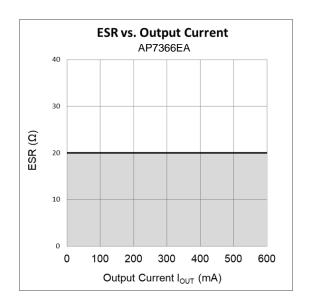
Output Capacitor

The output capacitor is required to stabilize and improve the transient response of the LDO. The AP7366EA is stable with very small ceramic output capacitors. Using a ceramic capacitor value that is at least $1\mu F$ on the output ensures stability. Higher capacitance values help to improve line and load transient response. The output capacitance may be increased to keep low undershoot and overshoot. Output capacitor must be placed as close as possible to OUT and GND pins.

ESR vs. Output Current

Ceramic type output capacitor is recommended for this series; however, the other output capacitors with low ESR also can be used. The relations between IouT (Output Current) and ESR of an output capacitor are shown below. The stable region for the safety operating temperature (-40°C to +85°C) is marked as the gray area in the graph.

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

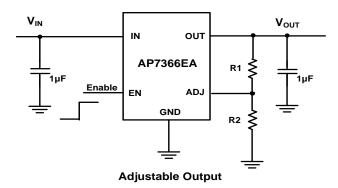




Application Information (continued)

Adjustable Operation

The AP7366EA provides output voltage from 0.8V to 5.0V through external resistor divider as shown below.



The output voltage is calculated by:

$$V_{\text{OUT}} = V_{\text{REF}} \left(1 + \frac{R_1}{R_2} \right)$$

Where VREF = 0.8V (the internal reference voltage)

Rearranging the equation will give the following that is used for adjusting the output to a particular voltage:

$$R1 = R2 \left(\frac{V_{OUT}}{V_{REF}} - 1 \right)$$

To maintain the stability of the internal reference voltage, R2 needs to be kept smaller than $80k\Omega$.

No Load Stability

Other than external resistor divider, no minimum load is required to keep the device stable. The device will remain stable and regulated in no load condition.

ON/OFF Input Operation

The AP7366EA 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 IN pin to keep the regulator output on at all time. 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 under V_{IL} and V_{IH} .

Current Limit Protection

When output current at OUT pin is higher than current limit threshold, the current limit protection will be triggered and clamp the output current to prevent over-current and to protect the regulator from damage due to overheating.

Short Circuit Protection

When OUT pin is short-circuit to GND, short circuit protection will be triggered and clamp the output current to approximately 250mA. Full current is restored when the output voltage exceeds 15% of V_{OUT}. This feature protects the regulator from over-current and damage due to overheating.

Thermal Shutdown Protection

Thermal protection disables the output when the junction temperature rises to approximately +150°C, allowing the device to cool down. When the junction temperature reduces to approximately +130°C, the output circuitry is enabled again. Depending on power dissipation, thermal resistance, and ambient temperature, the thermal protection circuit may cycle on and off. This cycling limits the heat dissipation of the regulator, protecting it from damage due to overheating.



Application Information (continued)

Ultra Fast Start-up

After enabled, the AP7366EA is able to provide full power in as little as tens of microseconds, typically 200µs, without sacrificing low ground current. This feature will help load circuitry move in and out of standby mode in real time, eventually extending battery life for mobile phones and other portable devices.

Low Quiescent Current

The AP7366EA, consuming only around 60µA for all input range, provides great power saving in portable and low power applications.

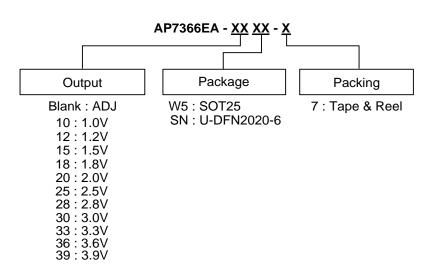
Power Dissipation

The device power dissipation and proper sizing of the thermal plane that is connected to the thermal pad is critical to avoid thermal shutdown and ensure reliable operation. Power dissipation of the device depends on input voltage and load conditions and can be calculated by:

The maximum power dissipation, handled by the device, depends on the maximum junction to ambient thermal resistance, maximum ambient temperature, and maximum device junction temperature, which can be calculated by the equation in the following.

$$P_{D}(\max@T_{A}) = \frac{(+150^{\circ}\text{C} - T_{A})}{R_{\theta JA}}$$

Ordering Information



Part Number	Part Number Suffix	Package	Package Code	Packing		
Fait Nullibei	Fait Number Sumx	Fackage	Fackage Code	Qty.	Carrier	
AP7366EA-W5-7	-7	SOT25	W5	3,000	7" Tape & Reel	
AP7366EA-XXW5-7	-7	SOT25	W5	3,000	7" Tape & Reel	
AP7366EA-SN-7	-7	U-DFN2020-6	SN	3,000	7" Tape & Reel	
AP7366EA-XXSN-7	-7	U-DFN2020-6	SN	3,000	7" Tape & Reel	



Marking Information

(1) SOT25



2

 \underline{XX} : Identification Code \underline{Y} : Year 0 to 9 (ex: 2 = 2022)

W: Week: A to Z: week 1 to 26; a to z: week 27 to 52; z represents week 52 and 53

X: Internal Code

Part Number	Package	Identification Code
AP7366EA-W5-7	SOT25	9E
AP7366EA-10W5-7	SOT25	9F
AP7366EA-12W5-7	SOT25	9G
AP7366EA-15W5-7	SOT25	9H
AP7366EA-18W5-7	SOT25	9J
AP7366EA-20W5-7	SOT25	9K
AP7366EA-25W5-7	SOT25	9M
AP7366EA-28W5-7	SOT25	9N
AP7366EA-30W5-7	SOT25	9P
AP7366EA-33W5-7	SOT25	9R
AP7366EA-36W5-7	SOT25	9S
AP7366EA-39W5-7	SOT25	9T

(2) U-DFN2020-6

(Top View)

<u>XX</u> $\underline{Y} \underline{W} \underline{X}$

XX: Identification Code
Y: Year: 0 to 9 (ex: 2 = 2022)
W: Week: A to Z: week 1 to 26;
a to z: week 27~52; z represents
Week 52 and 53

X: Internal Code

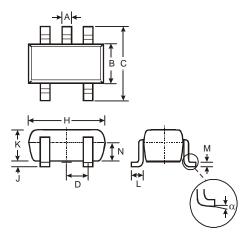
Part Number	Package	Identification Code
AP7366EA-SN-7	U-DFN2020-6	9E
AP7366EA-10SN-7	U-DFN2020-6	9F
AP7366EA-12SN-7	U-DFN2020-6	9G
AP7366EA-15SN-7	U-DFN2020-6	9H
AP7366EA-18SN-7	U-DFN2020-6	9J
AP7366EA-20SN-7	U-DFN2020-6	9K
AP7366EA-25SN-7	U-DFN2020-6	9M
AP7366EA-28SN-7	U-DFN2020-6	9N
AP7366EA-30SN-7	U-DFN2020-6	9P
AP7366EA-33SN-7	U-DFN2020-6	9R
AP7366EA-36SN-7	U-DFN2020-6	9S
AP7366EA-39SN-7	U-DFN2020-6	9T



Package Outline Dimensions

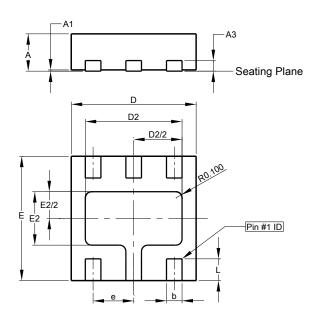
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: SOT25



	SOT25					
Dim	Min	Max	Тур			
Α	0.35	0.50	0.38			
В	1.50	1.70	1.60			
U	2.70	3.00	2.80			
D	-	-	0.95			
Н	2.90	3.10	3.00			
7	0.013	0.10	0.05			
K	1.00	1.30	1.10			
L	0.35	0.55	0.40			
М	0.10	0.20	0.15			
N	0.70	0.80	0.75			
α	0°	8°	-			
All D	All Dimensions in mm					

(2) Package Type: U-DFN2020-6



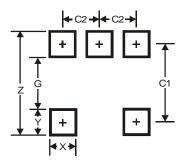
U-DFN2020-6					
Dim	Min	Max	Тур		
Α	0.57	0.63	0.60		
A1	0	0.05	0.03		
A3	-	-	0.15		
b	0.20	0.30	0.25		
D	1.95	2.075	2.00		
D2	1.45	1.65	1.55		
e	-	-	0.65		
Е	1.95	2.075	2.00		
E2	0.76	0.96	0.86		
١	0.30	0.40	0.35		
All D	All Dimensions in mm				



Suggested Pad Layout

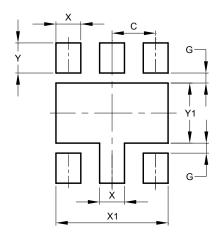
Please see http://www.diodes.com/package-outlines.html for the latest version.

(1) Package Type: SOT25



Dimensions	Value (in mm)
Z	3.20
G	1.60
X	0.55
Υ	0.80
C1	2.40
C2	0.95

(2) Package Type: U-DFN2020-6



Dimensions	Value (in mm)
С	0.65
G	0.15
Х	0.37
X1	1.67
Y	0.45
Y1	0.90

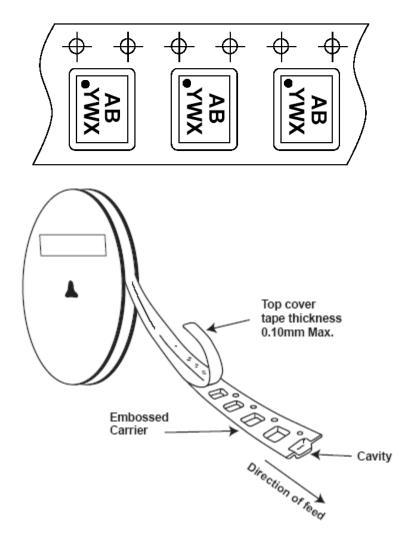
Mechanical Data

- Moisture Sensitivity: Level 1 Per J-STD-020
- Terminals:
 - SOT25: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 @3
 - U-DFN2020-6: Finish NiPdAu over Copper Leads, Solderable per MIL-STD-202, Method 208 @
- Weight:
 - SOT25: 0.015 grams (Approximate)
 - U-DFN2020-6: 0.007 grams (Approximate)



Tape Orientation (Note 8)

For U-DFN2020-6



Note: 8. The taping orientation of the other package type can be found on our website at https://www.diodes.com/assets/Packaging-Support-Docs/ap02007.pdf.



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