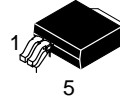


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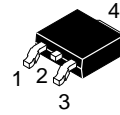
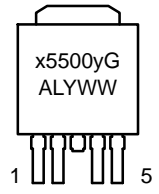
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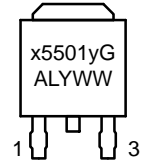
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Pin 1. EN
2. V_{in}
TAB, 3. GND
4. V_{out}
5. NC/ADJ

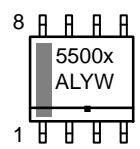


Pin 1. V_{in}
TAB, 2. GND
3. V_{out}

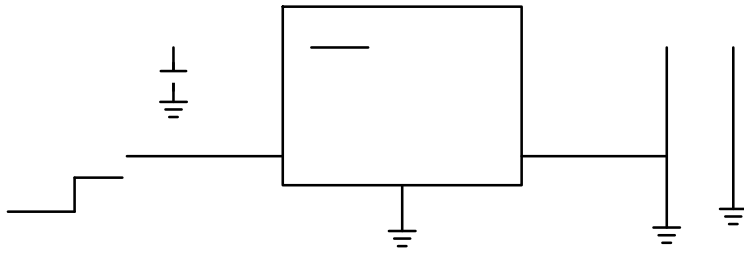


x = P (NCP), V (NCV)
5500/1 = Device Code
y = Output Voltage
L = 1.5 V
T = 3.3 V
U = 5.0 V
W = Adjustable
A = Assembly Location
L = Wafer Lot
Y = Year
WW = Work Week
G = Pb-Free Package

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See detailed ordering and shipping information in the package dimensions section on page 10 of this data sheet.
NOTE: Some of the devices on this data sheet have been . Please refer to the table on page 10.

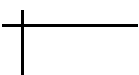
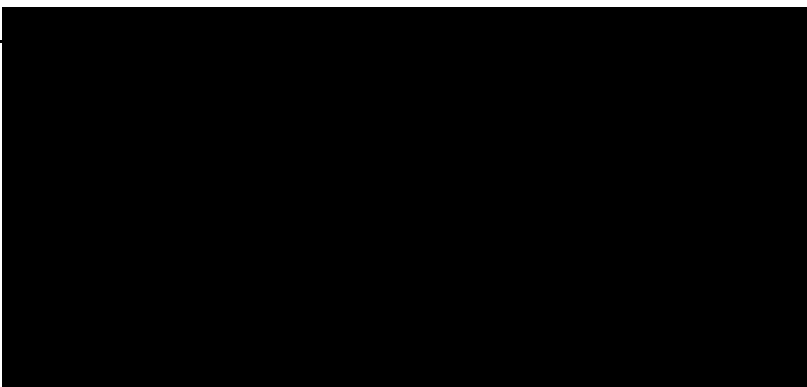


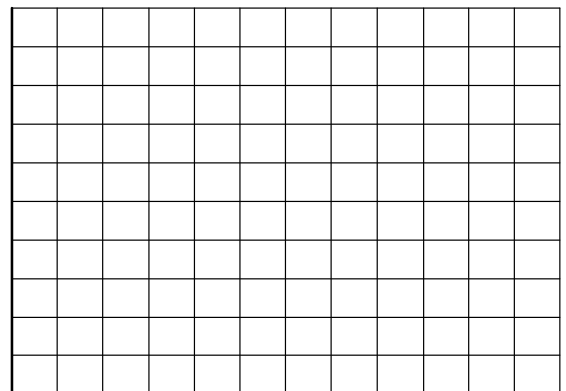
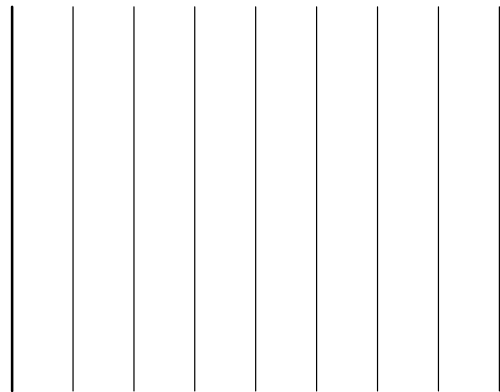
Input Voltage (Note 1)				
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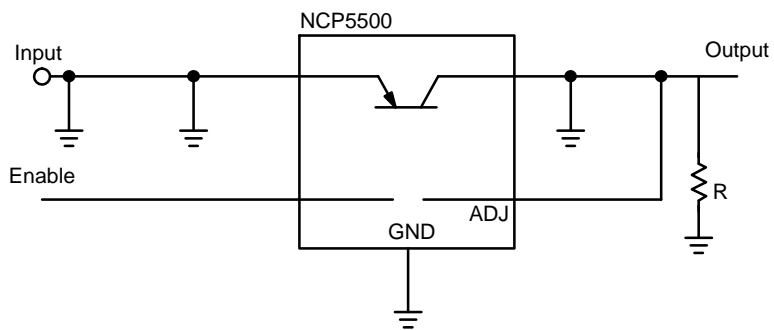


$V_{in} = 2.5 \text{ V}$ or $V_{out} + 1.0 \text{ V}$ (whichever is higher), $C_{in} = 10 \mu\text{F}$, $C_{out} = 4.7 \mu\text{F}$, for typical values $T_A = 25^\circ\text{C}$, for min/max values $T_A = -40^\circ\text{C}$ to 85°C (NCP Version), $T_A = -40^\circ\text{C}$ to 125°C (NCV Version) unless otherwise noted (Note 13).

Output Voltage (Note 14) 5 V Regulator 3.3 V Regulator 1.5 V Regulator ADJ Regulator	V_{out}	$T_A = 25^\circ\text{C}$, $I_{out} = 50 \text{ mA}$		$V_{NOM} \pm 2.9\%$		V V V
Output Voltage (Note 8) 5 V Regulator 3.3 V Regulator 1.5 V Regulator ADJ Regulator	V_{out}	$1.0 \text{ mA} < I_{out} < 500 \text{ mA}$	(-4.9%) 4.755 3.138 1.427 1.189	V_{NOM} 5.0 3.3 1.5 1.25	(+4.9%) 5.245 3.462 1.574 1.311	V V V
Line Regulation	REG_{LINE}	$I_{out} = 50 \text{ mA}$ 2.5 V or $(V_{out} + 1.0 \text{ V}) < V_{in} < 16 \text{ V}$	-1.0	0.1	1.0	%
Load Regulation	REG_{LOAD}	$1.0 \text{ mA} < I_{out} < 500 \text{ mA}$	-1.0	0.35	1.0	%
Dropout Voltage (Note 9) 5.0 V Version 3.3 V Version 1.5 V Version (Note 10) Adjustable Version (Note 11)	V_{DO}	$I_{out} = 1.0 \text{ mA}$, $\Delta V_{out} = -2\%$ $I_{out} = 500 \text{ mA}$, $\Delta V_{out} = -2\%$ $I_{out} = 1.0 \text{ mA}$, $\Delta V_{out} = -2\%$ $I_{out} = 500 \text{ mA}$, $\Delta V_{out} = -2\%$ $I_{out} = 1.0 \text{ mA}$, $\Delta V_{out} = -2\%$ $I_{out} = 500 \text{ mA}$, $\Delta V_{out} = -2\%$ $I_{out} = 1.0 \text{ mA}$, $\Delta V_{out} = -2\%$ $I_{out} = 500 \text{ mA}$, $\Delta V_{out} = -2\%$	- - - - - - -	5 230 5 230 - - 5 230	90 700 90 700 1073 1073 90 700	mV
Ground Current	I_{GND}	$I_{out} = 100 \mu\text{A}$ $I_{out} = 500 \text{ mA}$		300 10	500 20	μA mA
Disable Current in Shutdown (NCP5500, NCV5500)	I_{SD}	Adjustable and 1.5 V versions All other versions		30 40	50 50	μA
Current Limit	$I_{out(LIM)}$	$V_{out} = 90\%$ of $V_{out(nom)}$	500	700	900	mA
Ripple Rejection Ratio (Notes 9 & 14)	RR	120 Hz $I_{out} = 100 \text{ mA}$, 1 kHz 10 kHz	- - -	75 75 70	- - -	dB
Output Noise Voltage (Notes 12 & 14)	V_n	$f = 10 \text{ Hz}$ to 100 kHz , $V_{in} = 2.5 \text{ V}$ $V_{out} = 1.25 \text{ V}$, $I_{out} = 1.0 \text{ mA}$ $f = 10 \text{ Hz}$ to 100 kHz , $V_{in} = 2.5 \text{ V}$ $V_{out} = 1.25 \text{ V}$, $I_{out} = 1.0 \text{ mA}$				







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$$V_{\text{out}} = \left(1.25 \text{ V} - \left[60\text{E-}9 \cdot \frac{(R_1 \cdot R_2)}{(R_1 + R_2)} \right] \right) \cdot \left(\frac{(R_1 + R_2)}{R_2} \right)$$

$$P_{D(\text{max})} = [V_{\text{in}(\text{max})} - V_{\text{out}(\text{min})}] I_{\text{out}(\text{max})} + V_{\text{in}(\text{max})} I_{\text{GND}} \quad (\text{eq. 1})$$

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$$R_{\theta\text{JA}} = \frac{(150^\circ\text{C} - T_A)}{P_D} \quad (\text{eq. 2})$$

$$R_{\theta\text{JA}} = R_{\theta\text{JC}} + R_{\theta\text{CS}} + R_{\theta\text{SA}} \quad (\text{eq. 3})$$

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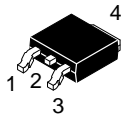
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DPAK-5, CENTER LEAD CROP
CASE 175AA
ISSUE B

DATE 15 MAY 2014



SCALE 1:1

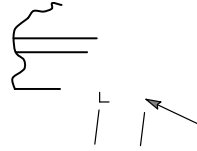
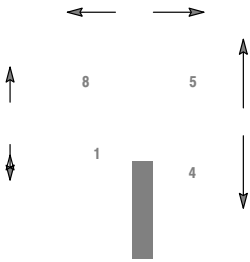
DPAK (SINGLE GAUGE)
CASE 369C
ISSUE G

DATE 31 MAY 2023

STYLE 1: PIN 1. BASE 2. COLLECTOR 3. EMITTER 4. COLLECTOR	STYLE 2: PIN 1. GATE 2. DRAIN 3. SOURCE 4. DRAIN	STYLE 3: PIN 1. ANODE 2. CATHODE 3. ANODE 4. CATHODE	STYLE 4: PIN 1. CATHODE 2. ANODE 3. GATE 4. ANODE	STYLE 5: PIN 1. GATE 2. ANODE 3. CATHODE 4. ANODE
STYLE 6: PIN 1. MT1 2. MT2 3. GATE 4. MT2	STYLE 7: PIN 1. GATE 2. COLLECTOR 3. EMITTER 4. COLLECTOR	STYLE 8: PIN 1. N/C 2. CATHODE 3. ANODE 4. CATHODE	STYLE 9: PIN 1. ANODE 2. CATHODE 3. RESISTOR ADJUST 4. CATHODE	STYLE 10: PIN 1. CATHODE 2. ANODE 3. CATHODE 4. ANODE

SOIC 8 NB
CASE 751-07
ISSUE AK

DATE 16 FEB 2011



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