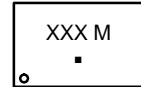
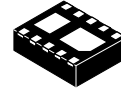
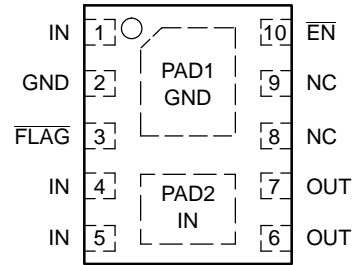


NC 347

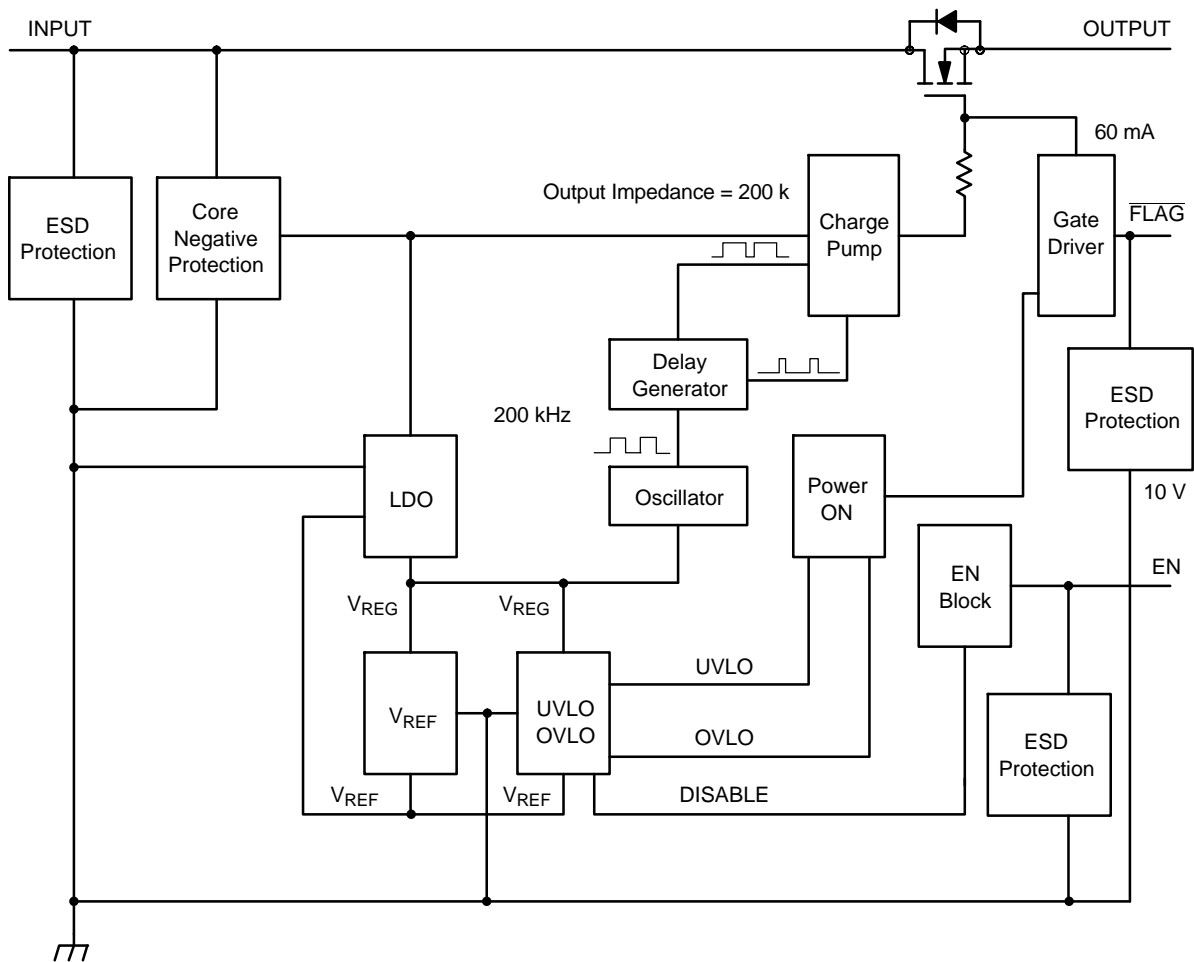
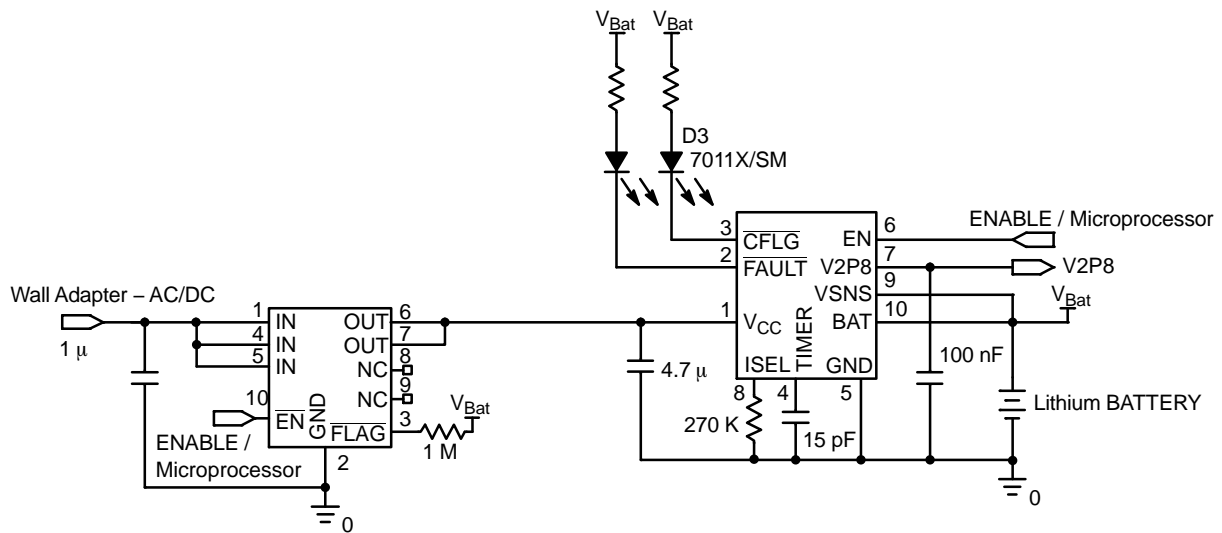
i i O a g w i
 a a L C RON NMO FE
 a a FLAG



XXX = Specific Device Code
 M = Date Code
 ■ = Pb-Free Package



(Top View)

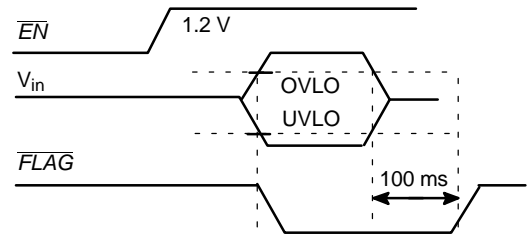
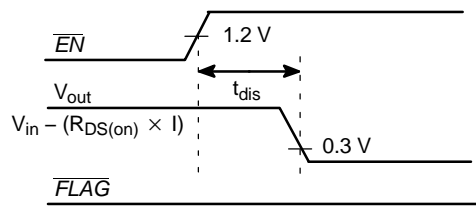
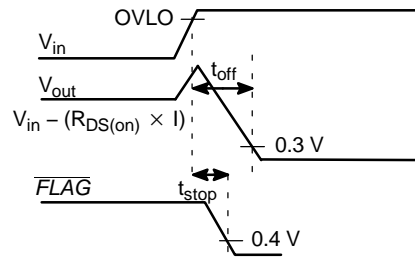
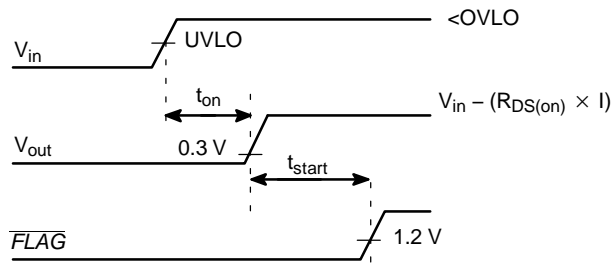


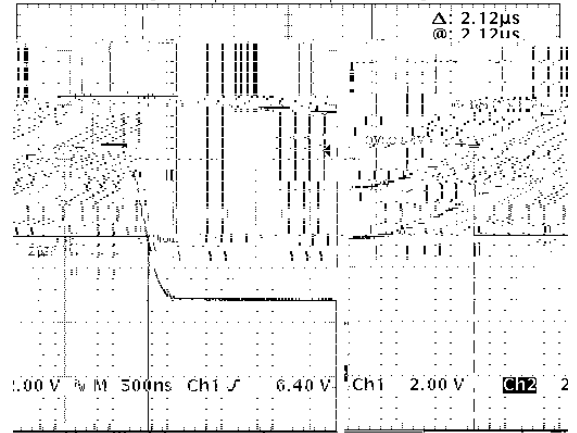
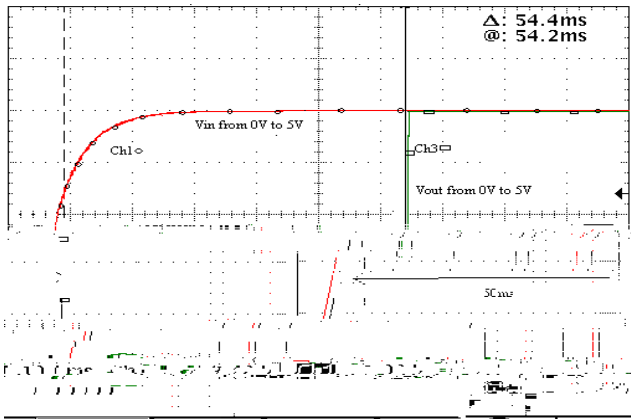
1 4 5	IN	POWER	Input Voltage Pin. This pin is connected to the power supply. The device system core is supplied by this input. A 1 μ F low ESR ceramic capacitor, or larger, must be connected between this pin and GND. The three IN pins must be hardwired to common supply.
2	GND	POWER	Ground
3	$\overline{\text{FLAG}}$	OUTPUT	Fault Indication Pin. This pin allows an external system to detect a fault on IN pin. The $\overline{\text{FLAG}}$ pin goes low when input voltage exceeds OVLO threshold or drop below UVLO threshold. Since the $\overline{\text{FLAG}}$ pin is open drain functionality, an external pull up resistor to V_{CC} must be added.
6 7	OUT	OUTPUT	Output Voltage Pin. This pin follows IN pin when “no fault” is detected. The output is disconnected from the V_{in} power supply when the input voltage is under the UVLO threshold or above OVLO threshold. The two OUT pins must be hardwired to common supply.
8	NC	OPEN	No Connect
9	NC	OPEN	No Connect
10	$\overline{\text{EN}}$	INPUT	Enable Pin. The device enters in shutdown mode when this pin is tied to a high level. In this case the output is disconnected from the input. To allow normal functionality, the $\overline{\text{EN}}$ pin shall be connected to GND to a pull down or to a I/O pin. This pin does not have an impact on the fault detection.
PAD1			PAD1, under the device. See PCB recommendations page 10. Can be shorted to GND.
PAD2			The PAD2 is electrically connected to the internal NMOS drain and connected to Pins 4 and 5. See PCB recommendations page 10.

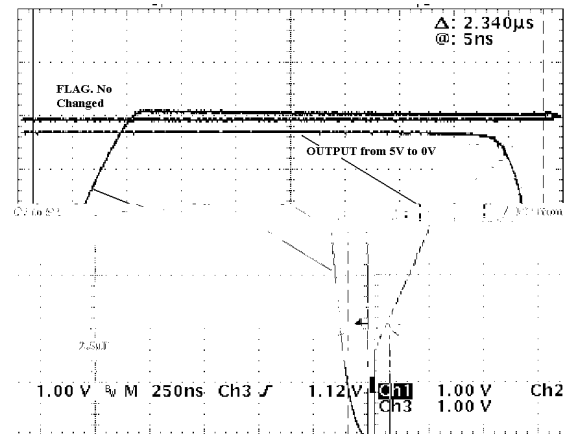
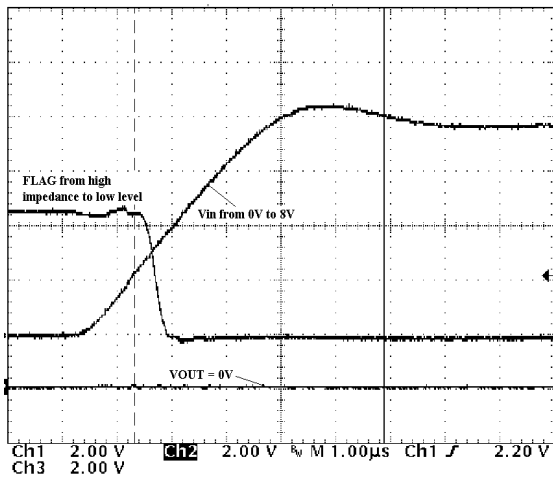
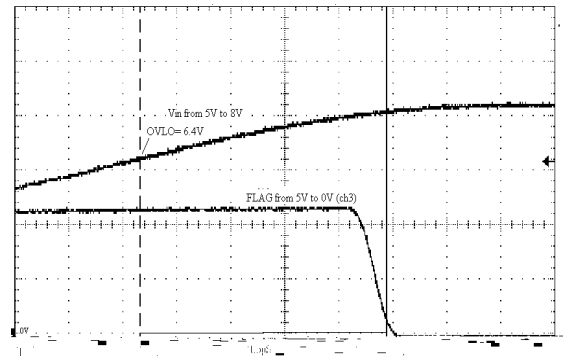
Minimum Voltage (IN to GND)	$V_{min_{in}}$	-0.3	V
Minimum Voltage (All others to GND)	V_{min}	-0.3	V
Maximum Voltage (IN to GND)	$V_{max_{in}}$	30	V
Maximum Voltage (All others to GND)			

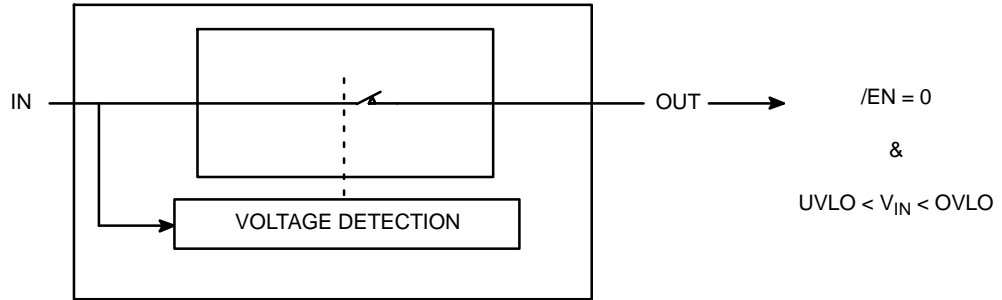
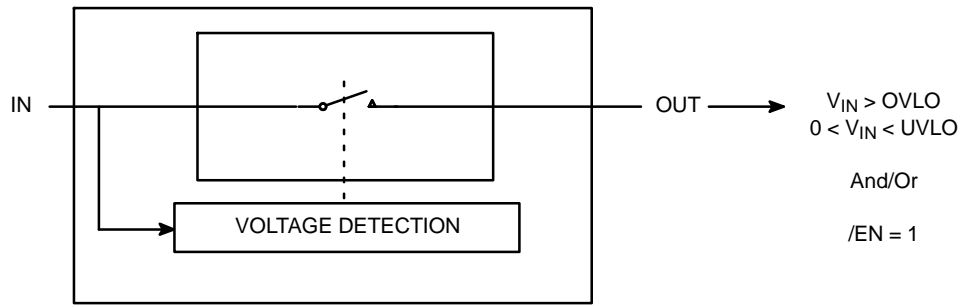
(Min/Max limits values $(-40^{\circ}\text{C} < T_A < +85^{\circ}\text{C})$ and $V_{in} = +5.0\text{ V}$. Typical values are $T_A = +25^{\circ}\text{C}$,

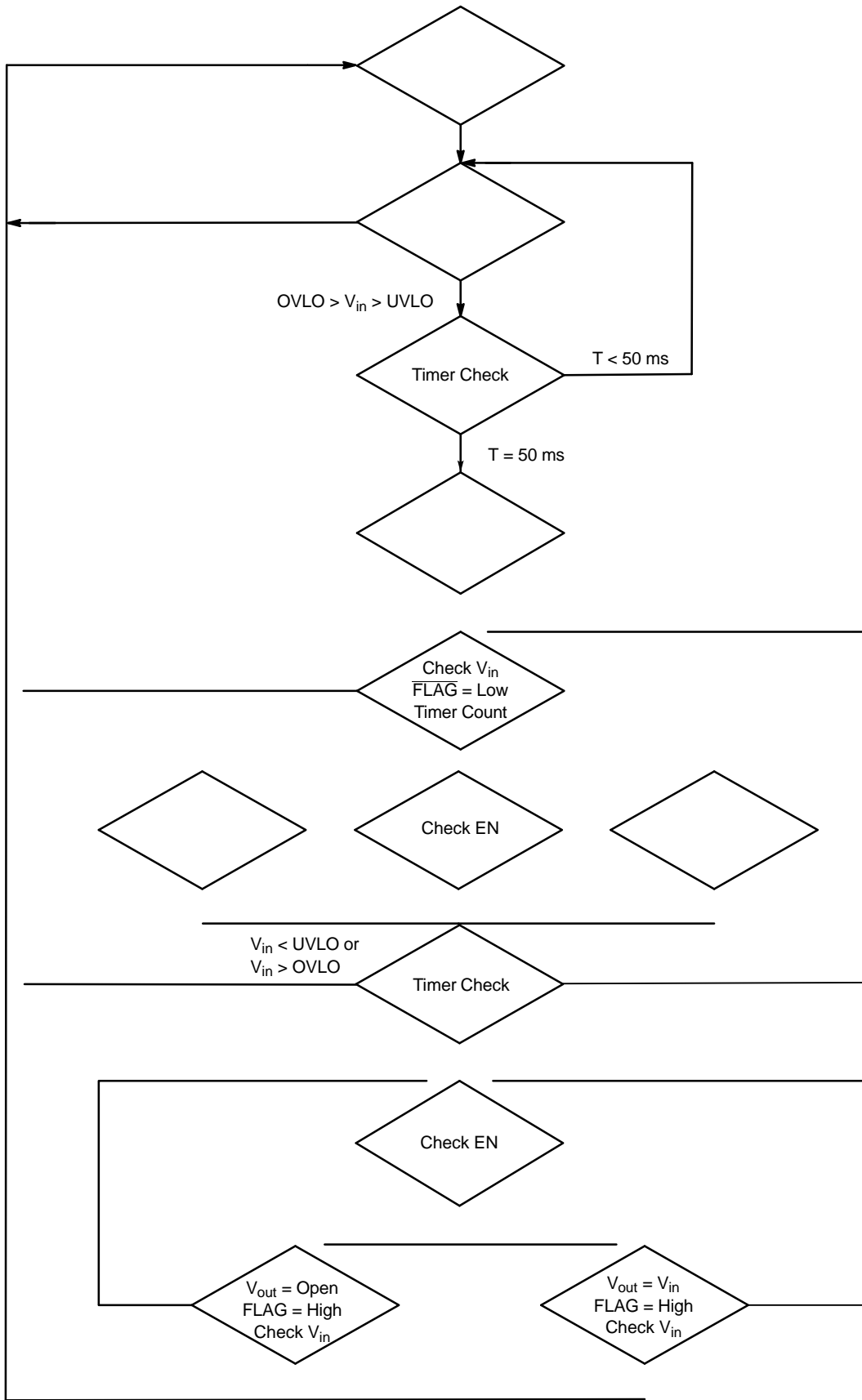










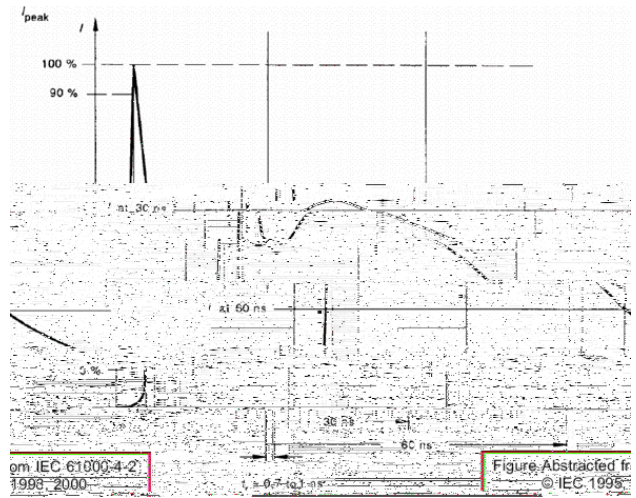


Ω

μ

±

±

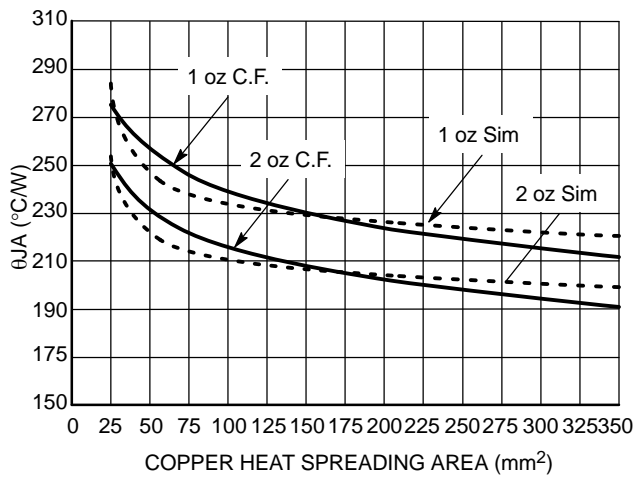


FLAG

Ω

Ω

EN



			†
NCP347MTAETBG	BAL	WDFN-10 (Pb-Free)	3000 / Tape & Reel
NCP347MTAFTBG	BAM		
NCP347MTAHTBG	BAK		
NCP347MTAITBG	ACJ		

†For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

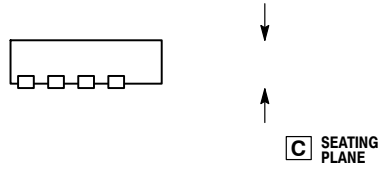
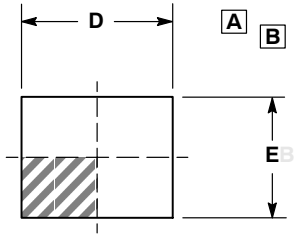
The NCP347 can be available in several undervoltage and overvoltage thresholds versions. Part number is designated as follows:



a	UVLO Typical Threshold a: A = 2.95 V
b	OVLO Typical Threshold b: E = 5.63 V b: F = 5.90 V b: H = 7.20 V b: I = 5.85 V
c	Tape & Reel Type c: B = 3000

WDFN10 2.5x2, 0.5P
CASE 516AA
ISSUE C

DATE 06 FEB 2007



NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION **b** APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30mm FROM TERMINAL.
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.

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