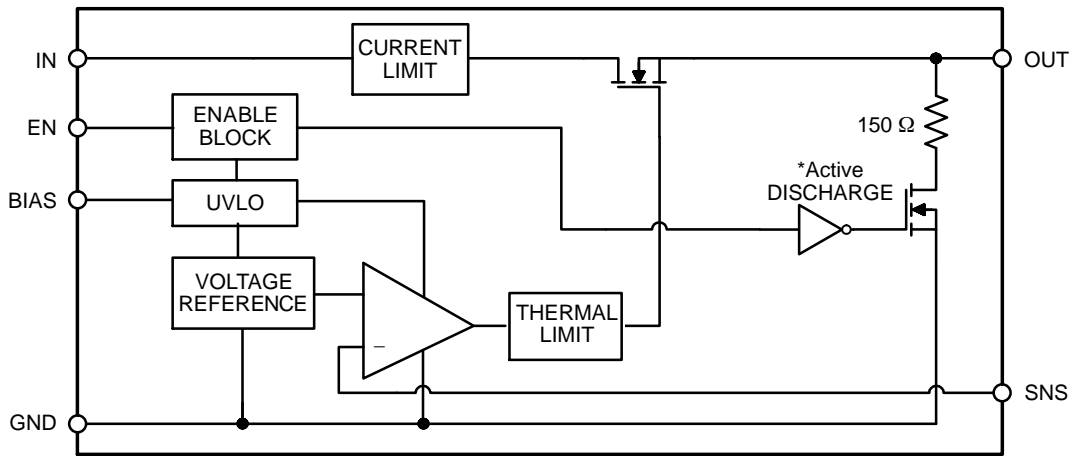




## T30LMPSR132, T30LAPSR132



\*Active output discharge function is present only in "A" and "C" option devices.

**Figure 2. Simplified Schematic Block Diagram – Fixed Version**

### PIN FUNCTION DESCRIPTION

Pin No. WLCSP6	Pin Name	Description
A1	OUT	Regulated Output Voltage pin
A2	IN	Input Voltage Supply pin
B1	SNS	Output voltage Sensing Input. Connect to Output on the PCB to output the voltage corresponding to the part version.
B2	EN	Enable pin. Driving this pin high enables the regulator. Driving this pin low puts the regulator into shutdown mode.
C1	GND	Ground pin
C2	BIAS	Bias voltage supply for internal control circuits.

### ABSOLUTE MAXIMUM RATINGS

Rating	Symbol	Value	Unit
Input Voltage (Note 1)	$V_{IN}$	-0.3 to 2.5	V
Output Voltage	$V_{OUT}$		

## T30LMPSR132, T30LAPSR132

**ELECTRICAL CHARACTERISTICS**  $-40^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$ ;  $V_{\text{BIAS}} = 2.7\text{ V}$  or  $(V_{\text{OUT}} + 1.6\text{ V})$ , whichever is greater,  $V_{\text{IN}} = V_{\text{OUT(NOM)}} + 0.1\text{ V}$ ,  $I_{\text{OUT}} = 1\text{ mA}$ ,  $V_{\text{EN}} = 1\text{ V}$ ,  $C_{\text{IN}} = 2.2\text{ }\mu\text{F}$ ,  $C_{\text{OUT}} = 2.2\text{ }\mu\text{F}$ ,  $C_{\text{BIAS}} = 1\text{ }\mu\text{F}$ , unless otherwise noted. Typical values are at  $T_J = +25^{\circ}\text{C}$ . Min/Max values are for  $-40^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$  unless otherwise noted. (Note 4)

Parameter	Test Conditions	Symbol	Min	Typ	Max	Unit
Operating Input Voltage Range		$V_{\text{IN}}$	$V_{\text{OUT}} + V_{\text{DO}}$		2.2	V
Operating Bias Voltage Range		$V_{\text{BIAS}}$	$(V_{\text{OUT}} + 1.50) \geq 2.5$		3.3	V
Undervoltage Lock-out	$V_{\text{BIAS}}$ Rising Hysteresis	$\text{UVLO}_{(\text{BIAS})}$		2.1 0.1		V
	$V_{\text{IN}}$ Rising Hysteresis					

**T30LMPSR132, T30LAPSR132**





**WLCSP6 0.99x0.65x0.29**  
**CASE 567ZT**  
**ISSUE B**

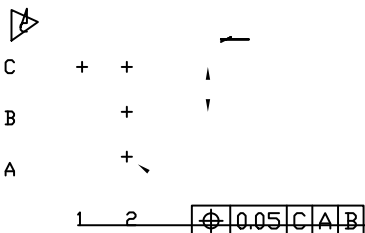
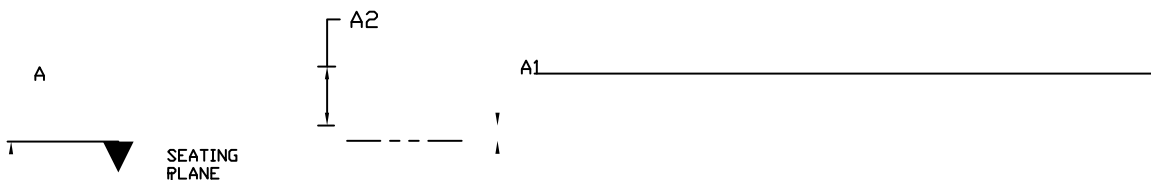
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ATUM C.

∥ 0.05 C

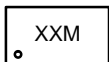
⤿ 0.03 C



**RECOMMENDED MOUNTING FOOTPRINT\***

\* For additior

**GENERIC MARKING DIAGRAM\***



XX = Specific Device Code  
M = Date Code

\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.

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