

## PERFORMANCE SPECIFICATIONS

Supply Voltage: 3 Vdc

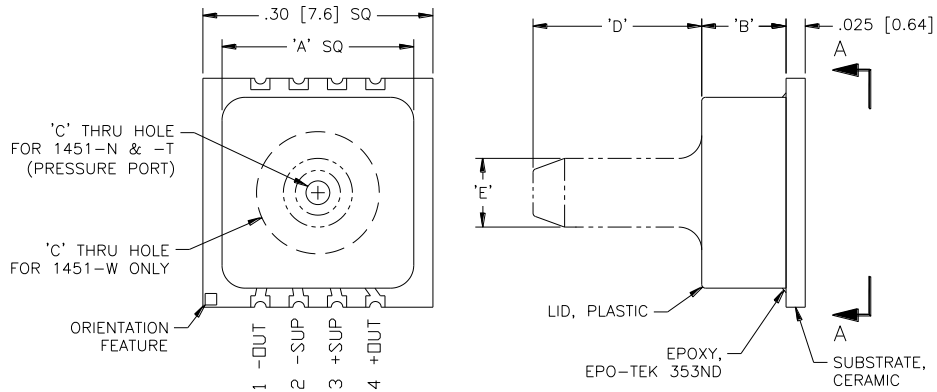
Ambient Temperature: 25°C (unless otherwise specified)

PARAMETERS	MIN	TYP	MAX	UNITS	NOTES
Span	30	60	120	mV	1
Zero Pressure Output	-25		25	mV	
Pressure Non Linearity	-0.25		0.25	%Span	2
Pressure Hysteresis	-0.1		0.1	%Span	
Input & Output Resistance	3500	5000	6000	Ω	
Temperature Coefficient – Span		-0.13		%/°C	3
Temperature Coefficient – Zero		0.05		%/°C	3
Temperature Coefficient – Resistance		0.15		%/°C	3
Thermal Hysteresis – Zero	-0.2		0.2	%Span	3
Supply Voltage		3.0	12.0	Vdc	
Response Time (10% to 90%)		1.0		mS	4
Output Noise (10Hz to 1kHz)		1.0		μV p-p	
Long Term Stability (Offset & Span)		0.5		%Span	5
Pressure Overload			3X	Rated	6
Operating Temperature	-40		+125	°C	
Storage Temperature	-50		+150	°C	
Weight			0.3	grams	
Soldering Temperature	250°C Max 5 Sec.				7
Media	Non-Corrosive Dry Gases Compatible with Silicon, Pyrex, RTV, Gold, LCP (Liquid Crystal Polymer), and Aluminum				

## Notes

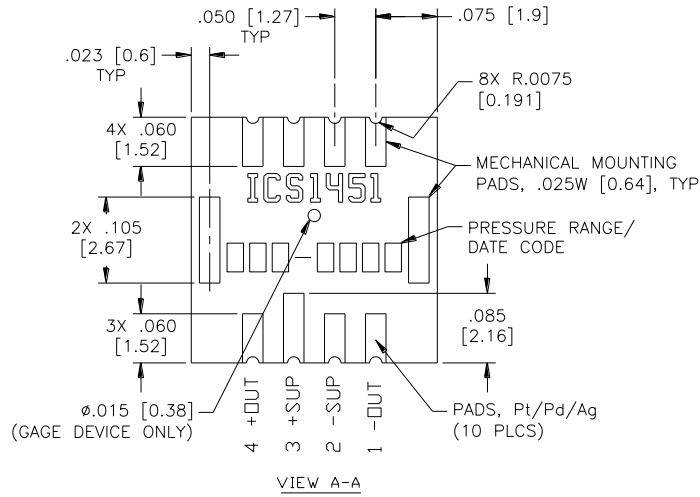
1. Ratiometric to supply voltage.
2. Best fit straight line.
3. Over the temperature range 0-50°C with respect to 25°C.
4. For a zero-to-full scale pressure step change.
5. Long term stability over a one year period with constant voltage and temperature.
6. For sensors above 100 psi, the entire sensor is required to be inside the pressure chamber.
7. For mounting instructions, please refer to the application note "Mounting Instructions for SMT Pressure Sensors."

DIMENSIONS



MODEL 1451 LID TABULATION			
	1451-N (NO TUBE)	1451-W (WIDE HOLE)	1451-T (TUBE)
'A'	.25 [6.4]	.25 [6.4]	.25 [6.4]
'B'	.110 [2.79]	.110 [2.79]	.110 [2.79]
'C'	∅.031 [0.78]	∅.160 [4.06]	∅.031 [0.78]
'D'			.220 [5.59]
'E'			∅.090 [2.29]

ALL DIMENSIONS ARE IN INCHES [mm]



CONNECTIONS

