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SEMICONDUCTOR PRESSURE SENSORS

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PRESSURE SENSOR DEVICE

Type No.	Temperature for use (°C)	Temperature for compensation (°C)	Characteristics for pressure				
			Form	Pressure for use (kPa)	Maximum pressure (kPa)	Offset Voltage (mV)	Sensitivity (mV/kPa)
MPS1101T	−40 to 125	−30 to 100	absolute pressure	0 to 101	304	−70 to 70	1.1 to 2.6
MPS1301T	−40 to 125	−30 to 100	gauge pressure				
MPS2101T	−40 to 125	−30 to 100	absolute pressure	0 to 203	507	−70 to 70	0.6 to 1.8
MPS2301T	−40 to 125	−30 to 100	gauge pressure				
MPS3120T	★★	−40 to 125	absolute pressure	0 to 1013	2027	−70 to 70	0.5 to 1.0
MPS3320T	★★	−40 to 125	gauge pressure				
MPS3102T		−40 to 125	absolute pressure	0 to 3040	10130	−70 to 70	0.2 to 0.4
MPS3302T		−40 to 125	gauge pressure				
MPS5310T		−40 to 125	gauge pressure	0 to 20	50	−70 to 70	3.4 to 9.8

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PRESSURE SENSOR HYBRID ICs

Type No.		Application	Typical electrical characteristics				Package outline
			V _{CC} (V)	K (mV/kPa)	P _r (kPa)	△P (kPa)	
M67883	★★	0.1atm., gauge pressure, gas pressure	3 to 5	269.2*	0 to 13	0.37	TO-5+12P DIP
M67884	★★	1atm., gauge pressure, air pressure	3 to 5	17.28*	−101 to 101	5.34	TO-5+12P DIP
M67885	★★	10atm., gauge pressure, air pressure, oil pressure	5	3.57	0 to 981	24.5	TO-5+12P DIP
M67886	★★	30atm., gauge pressure, oil pressure, 冷媒圧	5	1.19	0 to 2942	73.6	TO-5+12P DIP
M67891	★	1kgf/cm ² gauge pressure, gas pressure	3 to 5	40.8*	0 to 100	2.45	TO-5+12P DIP
M67892	★	3kgf/cm ² gauge pressure, gas pressure	3 to 5	13.6*	0 to 300	7.35	TO-5+12P DIP
M67893	★	8kgf/cm ² gauge pressure, gas pressure	3 to 5	5.1*	0 to 800	19.6	TO-5+12P DIP
M67894	★★	500mm H ₂ O gauge pressure, gas pressure	3 to 5	815.8*	0 to 4.9	0.13	TO-5+12P DIP
MPS1201S	★	Atomospheric detector	5	39.48	47 to 107	2.67	14P DIP
MPS1202S	★★	Atomospheric detector	5	39.48	47 to 107	2.67	5P SIL
MPS5401S	★★	0.3atm., gauge pressure, cleaner	5	153	−24.9 to −3.3	0.92	13P DIP
MPS5402S	★★	350mmHg, gauge pressure, Tonometer	5	96.4	4.7 to 46.7	1.56	13P DIP

* : When V_{CC} = 5V

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SEMICONDUCTOR ACCELERATION SENSOR

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ACCELERATION SENSOR DEVISE

(at Vopr = 5V)

Type No.	Temperature for use (°C)	Temperature for compensation (°C)	Characteristics				
			Acceleration for use (m/s ²)	Maximum acceleration (m/s ²)	Cut-off frequency (Hz)	Offset voltage (mV)	Sensitivity (mV/m/s ²)
MAS1301T	−40 to 85	−30 to 85	−19.6 to 19.6	−43.1 to 43.1	10	−60 to 60	0.3 to 0.8

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ACCELERATION SENSOR HYBRID ICs

Type No.	Application	Typical electrical characteristics				Package outline
		V _{CC} (V)	K (mV/m/s ²)	A _{acc} (m/s ²)	ΔA _{acc} (m/s ²)	
M67887	− 1.5 to +1.5G brake, suspension	5	102	− 14.7 to 14.7	± 5	Can Packag +22 Pin DIP
MAS3507P	★★ − 40 to +40G, air bag, shock sensor	5	4.08	− 392 to 392	± 5	5P plastic molded
MAS1401S	★★ − 1 to +1G, seismograph, vibration sensor	5	153.1	− 9.8 to 9.8	± 5	14P ceramic DIP
MAS1302P	★★ − 1 to +1G, suspension	5	153.1	− 9.8 to 9.8	± 5	5P plastic molded