

* S-807 Series will be summarized into S-808 Series.

HIGH-PRECISION VOLTAGE DETECTOR

S-807 Series

FEATURES

- Very-low current consumption : 1.0 μ A typ. (VDD=4.5V)
- Accuracy : $\pm 2.4\%$
- Wide operating voltage range : 1.0 to 15V
- Good hysteresis characteristics : 5% typ.
- Wide operating temperature range : -30°C to +80°C
- 3 output forms : Nch open drain, CMOS output active "H", active "L" (excluding the S-807XXSX)
- 2 output forms : Nch open drain, CMOS active "L" (S-807XXSX)

SPECIFICATIONS

Detection voltage	Hysteresis width Typ.	CMOS Output (Low)			CMOS Output (High)		Nch opendrain			Current consumption Typ.	Pin configurations
		TO-92	SOT-89-3*	SOT-23-5*	TO-92	SOT-89-3*	TO-92	SOT-89-3*	SOT-23-5*		
1.4V $\pm 2.4\%$	0.07V		S-80714AL-AB-X							1.4 μ A (VDD=3.0V)	
1.5V $\pm 2.4\%$	0.075V	S-80715AL	S-80715AL-AC-X	S-80715SL-AC-X			S-80715AN	S-80715AN-DC-X			
1.6V $\pm 2.4\%$	0.08V	S-80716AL	S-80716AL-AD-X				S-80716AN	S-80716AN-DD-X			
1.7V $\pm 2.4\%$	0.085V	S-80717AL	S-80717AL-AE-X				S-80717AN	S-80717AN-DE-X	S-80717SN-DE-X	1.4 μ A (VDD=4.5V)	
1.8V $\pm 2.4\%$	0.09V	S-80718AL	S-80718AL-AF-X	S-80718SL-AF-X		S-80718AH-BF-X	S-80718AN	S-80718AN-DF-X	S-80718SN-DF-X		
1.9V $\pm 2.4\%$	0.095V	S-80719AL	S-80719AL-AG-X	S-80719SL-AG-X			S-80719AN	S-80719AN-DG-X	S-80719SN-DG-X		
2.0V $\pm 2.4\%$	0.1V	S-80720AL	S-80720AL-AH-X	S-80720SL-AH-X		S-80720AH-BH-X	S-80720AN	S-80720AN-DH-X	S-80720SN-DH-X	1.0 μ A (VDD=4.5V)	
2.1V $\pm 2.4\%$	0.105V	S-80721AL	S-80721AL-AJ-X	S-80721SL-AJ-X			S-80721AN	S-80721AN-DJ-X	S-80721SN-DJ-X		
2.2V $\pm 2.4\%$	0.11V	S-80722AL	S-80722AL-AK-X				S-80722AN	S-80722AN-DK-X	S-80722SN-DK-X		
2.3V $\pm 2.4\%$	0.115V	S-80723AL	S-80723AL-AL-X	S-80723SL-AL-X			S-80723AN	S-80723AN-DL-X	S-80723SN-DL-X	1.0 μ A (VDD=6.0V)	
2.4V $\pm 2.4\%$	0.12V	S-80724AL	S-80724AL-AM-X				S-80724AN	S-80724AN-DM-X	S-80724SN-DM-X		
2.5V $\pm 2.4\%$	0.125V	S-80725AL	S-80725AL-AN-X	S-80725SL-AN-X		S-80725AH-BN-X	S-80725AN	S-80725AN-DN-X	S-80725SN-DN-X		
2.6V $\pm 2.4\%$	0.13V	S-80726AL	S-80726AL-AP-X				S-80726AN	S-80726AN-DP-X		1.0 μ A (VDD=6.0V)	
2.7V $\pm 2.4\%$	0.135V	S-80727AL	S-80727AL-AQ-X	S-80727SL-AQ-X			S-80727AN	S-80727AN-DQ-X	S-80727SN-DQ-X		
2.8V $\pm 2.4\%$	0.14V	S-80728AL	S-80728AL-AR-X	S-80728SL-AR-X			S-80728AN	S-80728AN-DR-X	S-80728SN-DR-X		
2.9V $\pm 2.4\%$	0.145V	S-80729AL	S-80729AL-AS-X				S-80729AN	S-80729AN-DS-X		1.0 μ A (VDD=6.0V)	
3.0V $\pm 2.4\%$	0.15V	S-80730AL	S-80730AL-AT-X	S-80730SL-AT-X			S-80730AN	S-80730AN-DT-X	S-80730SN-DT-X		
3.1V $\pm 2.4\%$	0.155V	S-80731AL	S-80731AL-AV-X		S-80731AH	S-80731AH-BV-X	S-80731AN	S-80731AN-DV-X			
3.2V $\pm 2.4\%$	0.16V	S-80732AL	S-80732AL-AW-X	S-80732SL-AW-X			S-80732AN	S-80732AN-DW-X	S-80732SN-DW-X	1.0 μ A (VDD=6.0V)	
3.3V $\pm 2.4\%$	0.165V	S-80733AL	S-80733AL-AX-X	S-80733SL-AX-X	S-80733AH		S-80733AN	S-80733AN-DX-X	S-80733SN-DX-X		
3.4V $\pm 2.4\%$	0.17V	S-80734AL	S-80734AL-AY-X				S-80734AN	S-80734AN-DY-X	S-80734SN-DY-X		
3.5V $\pm 2.4\%$	0.175V	S-80735AL	S-80735AL-AZ-X	S-80735SL-AZ-X			S-80735AN	S-80735AN-DZ-X	S-80735SN-DZ-X	1.0 μ A (VDD=6.0V)	
3.6V $\pm 2.4\%$	0.18V	S-80736AL	S-80736AL-AQ-X				S-80736AN	S-80736AN-DO-X	S-80736SN-DO-X		
3.7V $\pm 2.4\%$	0.185V	S-80737AL	S-80737AL-A1-X				S-80737AN	S-80737AN-D1-X			
3.8V $\pm 2.4\%$	0.19V	S-80738AL	S-80738AL-A2-X				S-80738AN	S-80738AN-D2-X		1.0 μ A (VDD=6.0V)	
3.9V $\pm 2.4\%$	0.195V	S-80739AL	S-80739AL-A3-X				S-80739AN	S-80739AN-D3-X	S-80739SN-D3-X		
4.0V $\pm 2.4\%$	0.2V	S-80740AL	S-80740AL-A4-X	S-80740SL-A4-X	S-80740AH	S-80740AH-B4-X	S-80740AN	S-80740AN-D4-X	S-80740SN-D4-X		
4.1V $\pm 2.4\%$	0.205V	S-80741AL	S-80741AL-A5-X				S-80741AN	S-80741AN-D5-X		1.0 μ A (VDD=6.0V)	
4.2V $\pm 2.4\%$	0.21V	S-80742AL	S-80742AL-A6-X	S-80742SL-A6-X			S-80742AN	S-80742AN-D6-X	S-80742SN-D6-X		
4.3V $\pm 2.4\%$	0.215V	S-80743AL	S-80743AL-A7-X				S-80743AN	S-80743AN-D7-X			
4.4V $\pm 2.4\%$	0.22V	S-80744AL	S-80744AL-A8-X				S-80744AN	S-80744AN-D8-X	S-80744SN-D8-X	2.6 μ A (VDD=6.0V)	
4.295 to 4.605V	Release voltage 4.70V max.	S-80744HL	S-80744HL-UB-X								
4.5V $\pm 2.4\%$	0.225V	S-80745AL	S-80745AL-A9-X	S-80745SL-A9-X		S-80745AH-B9-X	S-80745AN	S-80745AN-D9-X	S-80745SN-D9-X	1.0 μ A (VDD=6.0V)	
4.6V $\pm 2.4\%$	0.23V	S-80746AL	S-80746AL-EA-X				S-80746AN	S-80746AN-JA-X			
4.7V $\pm 2.4\%$	0.235V	S-80747AL	S-80747AL-EB-X				S-80747AN	S-80747AN-JB-X			
4.8V $\pm 2.4\%$	0.24V	S-80748AL	S-80748AL-EC-X				S-80748AN	S-80748AN-JC-X		1.0 μ A (VDD=6.0V)	
4.9V $\pm 2.4\%$	0.245V	S-80749AL	S-80749AL-ED-X	S-80749SL-ED-X			S-80749AN	S-80749AN-JD-X			
5.0V $\pm 2.4\%$	0.25V	S-80750AL	S-80750AL-EE-X	S-80750SL-EE-X			S-80750AN	S-80750AN-JE-X	S-80750SN-JE-X		
5.1V $\pm 2.4\%$	0.255V	S-80751AL	S-80751AL-EF-X	S-80751SL-EF-X			S-80751AN	S-80751AN-JF-X	S-80751SN-JF-X	1.9 μ A (VDD=7.5V)	
5.2V $\pm 2.4\%$	0.26V		S-80752AL-EG-X	S-80752SL-EG-X				S-80752AN-JG-X			
5.3V $\pm 2.4\%$	0.265V						S-80753AN				
5.5V $\pm 2.4\%$	0.275V		S-80755AL-EK-X							2.2 μ A (VDD=9.0V)	
6.0V $\pm 2.4\%$	0.3V							S-80760AN-JQ-T1			
6.1V $\pm 2.4\%$	0.305V			S-80761SL-ER-X							
6.3V $\pm 2.4\%$	0.315V							S-80763AN-JT-X		2.5 μ A (VDD=10.5V)	
6.5V $\pm 2.4\%$	0.325V							S-80765AN-JW-T1			
6.6V $\pm 2.4\%$	0.33V		S-80766AL-EX-T1			S-80766AH-HX-T1					
6.9V $\pm 2.4\%$	0.345V								S-80769SN-JO-T1	2.5 μ A (VDD=10.5V)	
7.1V $\pm 2.4\%$	0.355V		S-80771AL-E2-T1	S-80771SL-E2-T1							
7.7V $\pm 2.4\%$	0.385V						S-80777AN-J8-X	S-80777SN-J8-X			
9.3V $\pm 2.4\%$	0.465V							S-80793SN-7Q-T1			

* The last digit "X" changes as follows depending upon the packing form when it is SOT-89-3 or SOT-23-5 package product (tape only for SOT-23-5).
X=S : Stick, X=T1 or T2 : Tape (T1 is standard)

VOLTAGE DETECTOR

S-806 Series

SPECIFICATIONS

Detection voltage	Hysteresis width Typ.	Nch open drain			Current consumption Typ.	Output current Typ.	Operating voltage
		Loose	Taped (reel)	Taped (zigzag)			
2.195 to 2.405V	0.115V	S-806L	S-806L-X	S-806L-Z	10 μA(VDD=3.0V)	I _{OUT} V _{DD} (mA) (V) 0.25 0.95 0.50 1.20 3.70 2.40 7.00 3.60 V _{DS} =0.5V	1.5 to 10.0V
2.395 to 2.605V	0.125V	S-806K	S-806K-X	S-806K-Z			
2.595 to 2.805V	0.135V	S-806J	S-806J-X	S-806J-Z			
2.795 to 3.005V	0.148V	S-806I	S-806I-X	S-806I-Z	10 μA(VDD=4.5V)		1.6 to 10.0V
2.895 to 3.205V	0.150V	S-806H	S-806H-X	S-806H-Z			
3.095 to 3.405V	0.163V	S-806G	S-806G-X	S-806G-Z			
3.395 to 3.705V	0.178V	S-806F	S-806F-X	S-806F-Z	10 μA(VDD=6.0V)		
3.695 to 4.005V	0.193V	S-806E	S-806E-X	S-806E-Z			
3.995 to 4.305V	0.208V	S-806D	S-806D-X	S-806D-Z			
4.40 to 4.70V	0.050V	S-806C	S-806C-X	S-806C-Z			

* The last digit "X" changes into "T" or "F" depending upon the direction of ICs on the tape. (T is standard)

PIN CONFIGURATIONS

