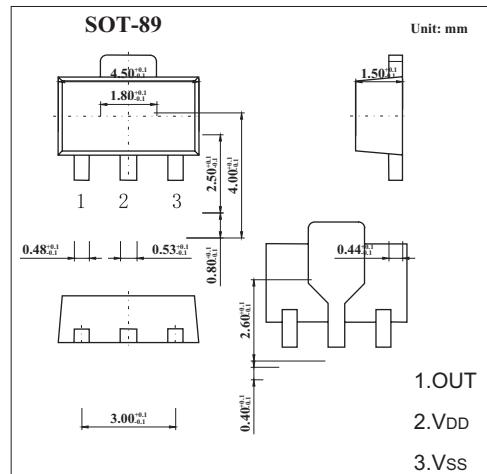


High-Precision Voltage Detector

S-80719AL-AG-X

■ Features

- Ultra-Low Current Consumption 1.0 μ A Typ.(VDD = 4.5V)
- High-Precision Detection Voltage $\pm 2.4\%$
- Wide Operating Voltage Range 1.0 to 15V
- Good Hysteresis Characteristics 5% Typ.
- Wide Operating Temperature Range -30°C to +80 °C
- CMOS Output Active Low



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Power Supply Voltage	VDD - Vss	18	
Input Voltage	VIN	Vss -0.3 to VDD +0.3	V
Output Voltage	VOUT	Vss -0.3 to VIN +0.3	
Output Current	IOUT	50	mA
Power Dissipation	PD	200	mW
Operating Temperature	Topr	-30 to +80	°C
Storage Temperature	Tstg	-40 to +125	

Caution: Keep static electricity to a minimum.

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Conditions	Min	Typ	Max	Unit	Test Circuit
Detection Voltage	-VDET		1.854	1.900	1.946	V	1
Hysteresis Width	VHYS		-VDET x0.02	-VDET x0.05	-VDET x0.08	V	1
Current Consumption	I _{SS}	V _{DD} = 3.0V	—	1.4	3.5	μ A	2
Operating Voltage	V _{DD}		1.0	—	15.0	V	1
Output Current	I _{OUT}	V _{DS} = 0.5V , V _{DD} = 4.8V	0.36	0.62	—	mA	4
Temperature Characteristic of -VDET	$\frac{\Delta V_{DET}}{\Delta T_a}$	T _a = -30°C to 80°C	—	± 0.24	—	mV/°C	—