

Description

The BP2670XX series is a family of Low Voltage Detector, developed using CMOS technology. These ICS perform with high accuracy detector threshold and Ultra-low supply current consumption

Features

- Ultra-low supply current 1.2uA
- wide range of operation voltage 1.5V~26V
- high accuracy detector threshold $\pm 3\%$
- low temperature_drift coefficient of detector threshold $\pm 50\text{ppm}/^\circ\text{C}$

Selection table

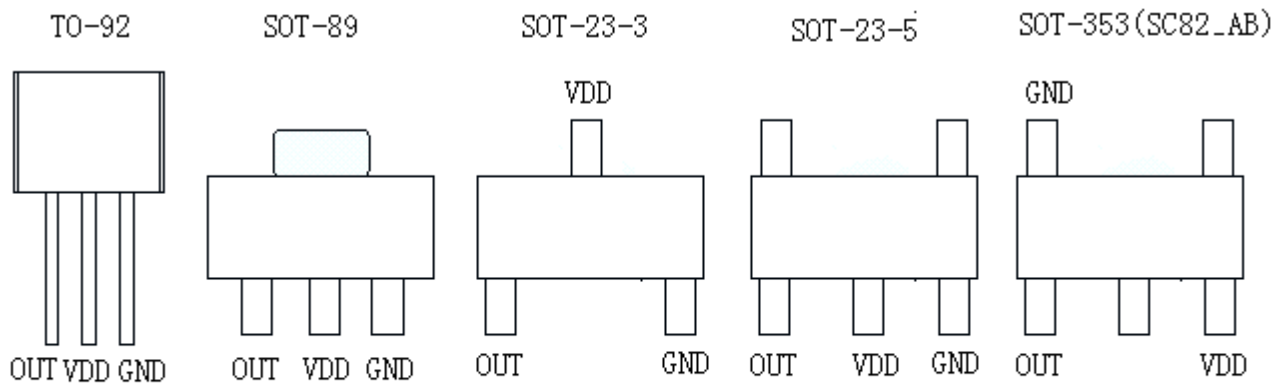
Part NO.	Detector voltage	Hysteresis with	Tolerance
267015	1.5 V	0.075 V	$\pm 3\%$
267019	1.9 V	0.095 V	$\pm 3\%$
267021	2.1 V	0.105 V	$\pm 3\%$
267022	2.2 V	0.11 V	$\pm 3\%$
267024	2.4V	0.12 V	$\pm 3\%$
267027	2.7V	0.135V	$\pm 3\%$
267028	2.8V	0.140V	$\pm 3\%$
267030	3.0V	0.150V	$\pm 3\%$
267033	3.3V	0.165V	$\pm 3\%$
267035	3.5V	0.170V	$\pm 3\%$
267039	3.9V	0.195V	$\pm 3\%$
267042	4.2V	0.21 V	$\pm 3\%$
267044	4.4V	0.22 V	$\pm 3\%$
267050	5.0V	0.25V	$\pm 3\%$
267070	7.0V	0.35V	$\pm 3\%$

Note: for semi-custom parts selectable output voltage from 1.5~9V in 0.1v increment

Custom can select Detector voltage tolerance $\pm 2\%$ product.

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Package and pin assignment



Absolute Maximum Ratings: Ta=25°C unless otherwise seecified)

Item	Symbol	Absolute Maximum Ratings	Unit
Supply voltage	V _{DD}	26	V
Output voltage	V _{OUT}	GND-0.3~ V _{IN} +0.3	
Power dissipatiot	P _D	250	mW
Operation temperature range	T _{opr}	-40~+85	°C
Storage temperature range	T _{stg}	-40~+125	

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Electrical Characteristics:

ITEM	SYMBOL	CONDITIONS	PART NO.	MIN	TYPE	MAX	UNITS
Detectable voltage	V_{DET}	$R_L=4.7K$	267015	1.455	1.5	1.545	V
			267019	1.843	1.9	1.957	
			267021	2.037	2.1	2.163	
			267022	2.134	2.2	2.266	
			267024	2.328	2.4	2.772	
			267027	2.619	2.7	2.781	
			267028	2.716	2.8	2.884	
			267030	2.910	3.0	3.090	
			267033	3.201	3.3	3.399	
			267039	3.783	3.9	4.017	
			267042	4.074	4.2	4.326	
			267044	4.268	4.4	4.532	
			267050	4.850	5.0	5.150	
			267070	6.790	7.0	7.210	
Hysteresis with	V_{HYS}	$R_L=4.7K$	267015	0.030	0.075	0.105	V
			267019	0.038	0.095	0.133	
			267021	0.042	0.105	0.147	
			267022	0.044	0.110	0.154	
			267024	0.048	0.120	0.168	
			267027	0.054	0.135	0.189	
			267028	0.056	0.140	0.196	
			267030	0.060	0.150	0.210	
			267033	0.066	0.165	0.231	
			267039	0.078	0.195	0.273	
			267042	0.084	0.210	0.294	
			267044	0.088	0.220	0.308	
			267050	0.100	0.250	0.350	
			267070	0.140	0.350	0.490	
Supply current	I_{SS}	no load	--		1.2	2	uA
Operation voltage	V_{DD}		--	1.5		26	V
Output current	I_{OUT}	$V_{OUT}=0.3V$	$V_{DET}<3V$	1	2	--	mA
			$V_{DET}>3V$	2	4	--	
Detector Voltage Threshold Temperation coefficient	$\frac{\Delta V_{EDT}}{\Delta ^\circ C}$	$-40^\circ C \leq T_a \leq 85^\circ C$	--	--	± 50	± 100	ppm/ $^\circ C$

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Application Circuits:

