

XC61C Series

Low Voltage Detectors (VDF = 0.9V to 1.5V)

Standard Voltage Detectors (VDF = 1.6V to 6.0V)

General Description

The XC61C series are highly precise, low power consumption voltage detectors, manufactured using CMOS and laser trimming technologies. Detect voltage is extremely accurate with minimal temperature drift. Both CMOS and N channel open drain output configurations are available.

Features

Highly accurate: $\pm 2\%$
Low power consumption: TYP $0.7\mu\text{A}$ [$V_{\text{IN}}=1.5\text{V}$]
Detect voltage range:
0.9V to 1.5V in 0.1V increments (Low Voltage)
1.6V to 6.0V in 0.1V increments (Standard Voltage)
Operating voltage range: 0.7V to 6.0V (Low Voltage)
: 0.7V to 10.0V (Standard Voltage)
Detect voltage temperature characteristics: TYP $\pm 100\text{ppm}/^\circ\text{C}$
Output configuration: N-channel open drain or CMOS
Ultra small package: SSOT-24 (150mW) super mini-mold
: SOT-23 (150mW) mini-mold
: SOT-89 (500mW) mini-power mold
Note: There are no products available with a set-up voltage accuracy of $\pm 1\%$.

Pin Configuration

SOT-23 (TOP VIEW)
SSOT-24(SC-82) (TOP VIEW)
SOT-89 (TOP VIEW)

Pin Assignment

PIN NUMBER			PIN NAME	FUNCTION
SSOT-24	SOT-23	SOT-89		
2	3	2	VIN	Supply Voltage Input
4	2	3	VSS	Ground
1	1	1	VOUT	Output
3	—	—	NC	No Connection

Block Diagram

(1) CMOS Output

(2) Nch Open Drain Output

Ordering Information

XC61C x_a x_b x_c x_d x_e x_f
↑ ↑ ↑ ↑ ↑ ↑
a b c d e f

DESIGNATOR	DESCRIPTION	DESIGNATOR	DESCRIPTION
a	Output Configuration : C = CMOS N = Nch open drain	e	Package Type : N = SSOT-24 (SC-82) M = SOT-23 P = SOT-89 T = TO-92
b	Detect Voltage : 25 = 2.5V 38 = 3.8V	f	Device Orientation : R = Embossed Tape (Right) L = Embossed Tape (Left) H = PaperTape (TO-92) B = Bag (TO-92)
c	Output Delay : 0 = No delay		
d	Detect Accuracy : 2 = within $\pm 2.0\%$		