



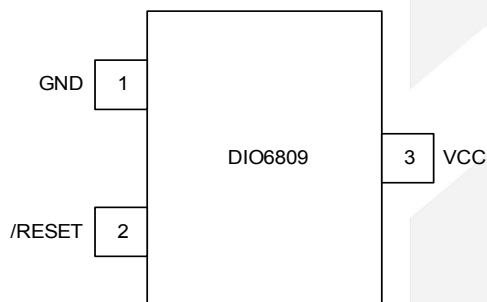
DIO6809

Ultra Low Power Microprocessor Reset Circuit

Features

- 140ms min Reset Pulse Width
- 3.2 μ A Supply Current @V_{CC}=3V
- Guaranteed Reset Valid to V_{CC} = +1.0V
- Power Supply Transient Immunity
- Operating Temperature Range
-40°C to +85°C
- Available in SOT-23 and SOT-23-3

Block Diagram



Descriptions

DIO6809 series are micro-processor (μ P) supervisory circuits used to monitor the power supplies in μ P and digital systems. They provide excellent circuit reliability and low cost by eliminating external components.

These circuits perform a single function: they assert a reset signal whenever the V_{CC} supply voltage declines below a preset threshold, keeping it asserted for at least 140ms after V_{CC} has risen above the reset threshold.

The DIO6809 has CMOS outputs. The DIO6809 has an active-low /RESET output, The reset comparator is designed to ignore fast transients on V_{CC}, and the outputs are guaranteed to be in the correct logic state for V_{CC} down to 1.0V over the temperature range.

The device is available in 3 pin SOT-23 and SOT-23-3L package

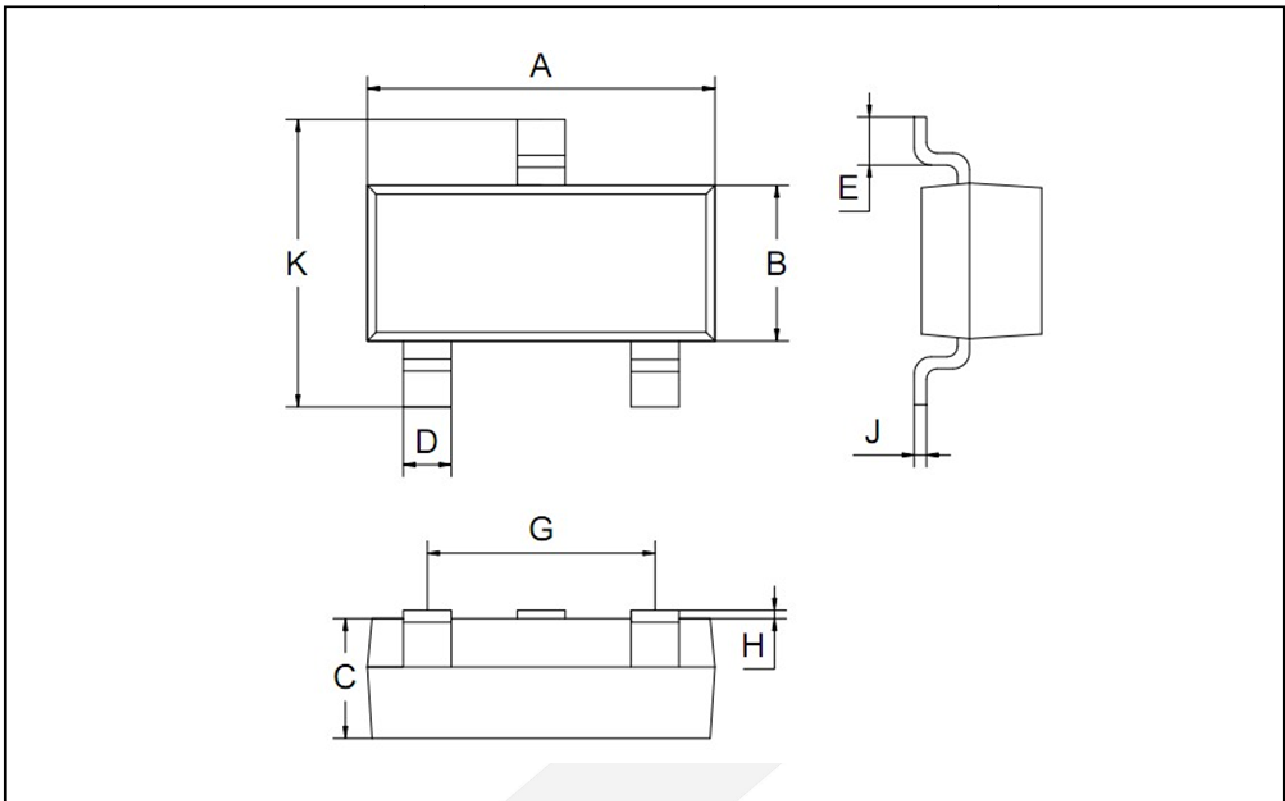
Applications

- Computers
- Controllers
- Intelligent Instruments
- Portable/Battery-Powered Equipment

Ordering Information

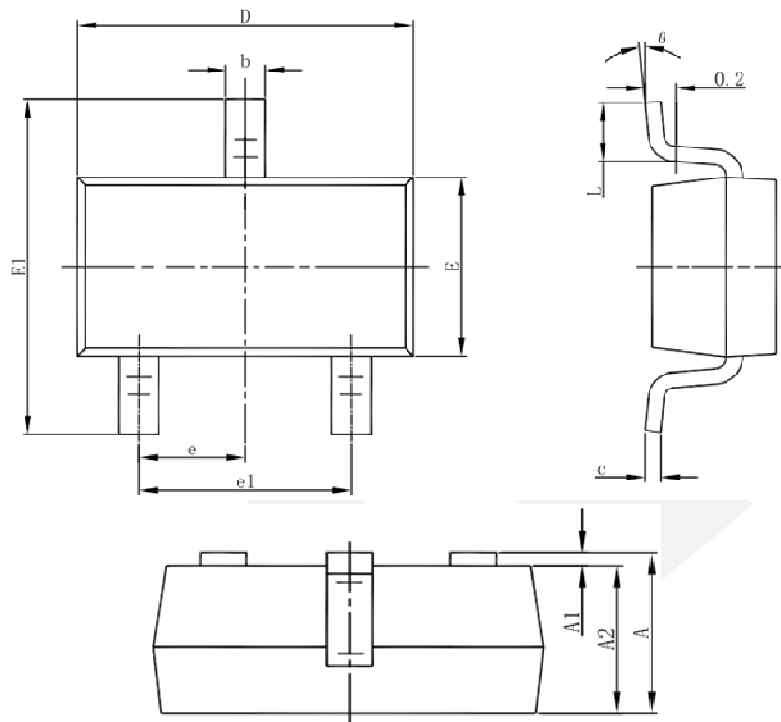
Order Part Number		T _A	Package	
DIO6809XST3	RoHS	-40 to +85°C	SOT-23-3	Tape & Reel, 3000
DIO6809XSU3	RoHS	-40 to +85°C	SOT-23-3L	Tape & Reel, 3000

Physical Dimensions: SOT-23



Symbol	Dimensions In Millimeters	
	Min	Max
A	2.70	3.10
B	1.10	1.50
C	1.0 Typical	
D	0.4 Typical	
E	0.35	0.48
G	1.80	2.00
H	0.02	0.1
J	0.1 Typical	
K	2.20	2.60

Physical Dimensions: SOT-23-3L



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	1.050	1.250	0.041	0.049
A1	0.000	0.100	0.000	0.004
A2	1.050	1.150	0.041	0.045
b	0.300	0.500	0.012	0.020
c	0.100	0.200	0.004	0.008
D	2.820	3.020	0.111	0.119
E	1.500	1.700	0.059	0.067
E1	2.650	2.950	0.104	0.116
e	0.950 TYP.		0.037 TYP.	
e1	1.800	2.000	0.071	0.079
L	0.300	0.600	0.012	0.024
Θ	0°	8°	0°	8°

CONTACT US

Dioo is a professional design and sales corporation for high-quality and performance analog semiconductors. The company focuses on industry markets, such as, cell phone, handheld products, laptop, and medical equipments and so on. Dioo's product families include analog signal processing and amplifying, LED drivers and charger IC. Go to <http://www.dioo.com> for a complete list of Dioo product families.

For additional product information, or full datasheet, please contact with our Sales Department or Representatives.

