

Microprocessor Reset IC

Features

- Power-On Reset Generator With Fixed Delay Time of 200ms
- Manual Reset Input
- Push-Pull RESET and RESET Output
- Supply Voltage Supervision Range 2.5V, 3V, 3.3V, 5V
- Supply Current of 10µA at V_{CC}=3.3V
- SOT-23-5 Package

Applications

- Critical µP and µC Power Monitoring
- Industrial Equipment
- **■** Programmable Controls
- Automotive Systems
- Portable/Battery-Powered Equipment
- Intelligent Instruments
- Wireless Communications Systems
- Notebook/Desktop Computers

General Description

The G663 provide circuits initialization and timing supervision, primarily for DSP and processor-based systems. During power-on, $\overline{\text{RESET}}$ (RESET) is asserted when supply voltage VCC becomes higher than 1.1 V. Thereafter, the supply voltage supervisor monitors VCC and keeps $\overline{\text{RESET}}$ (RESET) active as long as VCC remains below the threshold voltage $V_{\text{IT}_+}^{(1)}$.

An internal timer delays the return of the output to the inactive state to ensure proper system reset. The delay time, td, starts after VCC has risen above the threshold voltage V_{IT} . When the supply voltage drops below the threshold voltage V_{IT} . (2), the outputs becomes active again. No external components are required. All the devices have a fixed-sense threshold voltage V_{IT} set by an internal voltage divider.

The G663 incorporate a manual reset input $\overline{\text{MR}}$. A low level at $\overline{\text{MR}}$ causes $\overline{\text{RESET}}$ (RESET) to become active. The product spectrum is designed for supply voltages of 2.5V, 3V, 3.3V, and 5V. The circuits are available in a SOT-23-5 package.

Note:

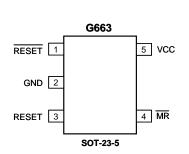
- (1) $V_{\text{IT+}}$ means the reset voltage of V_{CC} from low to high
- (2) V_{IT} means the reset voltage of V_{CC} from high to low.

Ordering Information

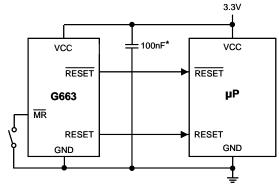
ORDER NUMBER	RESET THRESHOLD (V)	MARKING	OUTPUT TYPE	TEMP. RANGE	PACKAGE (Green)
G663-225T11U	2.25	663Ax	Push-Pull RESET & RESET	-40°C ~ +85°C	SOT-23-5
G663-263T11U	2.63	663Bx	Push-Pull RESET & RESET	-40°C ~ +85°C	SOT-23-5
G663-293T11U	2.93	663Cx	Push-Pull RESET & RESET	-40°C ~ +85°C	SOT-23-5
G663-455T11U	4.55	663Dx	Push-Pull RESET & RESET	-40°C ~ +85°C	SOT-23-5

Note: T1: SOT-23-5 1: Bonding Code U: Tape & Reel

Pin Configuration



Typical Application Circuit



* The bypass capacitor should be mounted as close as possible to V_{CC}.

ICC may increased at high T_A, Therefore, can not connect
Resistors to VCC to prevent Icc abnormal behavior at high T_A.

 Ver: 0.3
 TEL: 886-3-5788833

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 http://www.gmt.com.tw

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