

**500mA Low-Dropout Linear Regulators****Features**

- Low, 100 $\mu$ A No-Load Supply Current
- 500mA Output Current Limit Minimum
- 500mA Available at  $V_O=3.3V$ ,  $V_{IN}=4.3V$
- 300mA Current Rating
- Over-Temperature Protection and Short-Circuit Protection
- Max. Supply Current in Shutdown Mode < 1 $\mu$ A
- Stable with Low Cost Ceramic Capacitors

**Applications**

- Notebook Computers
- Cellular Phones
- PDAs
- Digital still Camera and Video Recorders
- Hand-Held Devices
- Bar Code Scanners

**General Description**

The G9001 is a low supply current, low dropout linear regulator. The supply current at no-load is 100 $\mu$ A. In the shutdown mode, the maximum supply current is less than 1 $\mu$ A. Output current minimum limit is 500mA, and over-current protection limit is set at 860mA typical. An overtemperature protection circuit is built-in in the G9001 to prevent thermal overload. These power saving features make the G9001 ideal for use in the battery-powered applications such as notebook computers, cellular phones, and PDA's.

These devices feature a shutdown function and are offered in active low with auto discharge. The G9001 is specifically designed to employ ceramic output capacitors. The G9001 comes in a space saving SOT-89, SOT-23-5 and TSOT-23-5 package.

**Ordering Information**

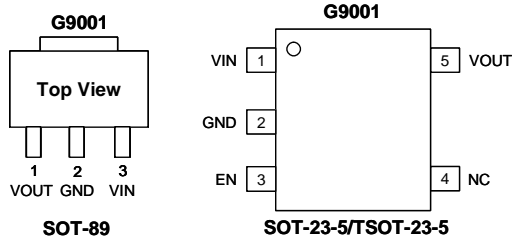
ORDER NUMBER	MARKING	VOLTAGE	TEMP. RANGE	PACKAGE (Pb free)
G9001-120T11U	900Ax	1.20V	-40°C~ +85°C	SOT-23-5
G9001-180T11U	900Fx	1.80V	-40°C~ +85°C	SOT-23-5
G9001-250T11U	900Ix	2.50V	-40°C~ +85°C	SOT-23-5
G9001-260T11U	900Jx	2.60V	-40°C~ +85°C	SOT-23-5
G9001-330T11U	900Px	3.30V	-40°C~ +85°C	SOT-23-5
G9001-250TO1U	900Ix	2.50V	-40°C~ +85°C	TSOT-23-5
G9001-250T21U	9001I	2.50V	-40°C~ +85°C	SOT-89

For other output voltage, please contact us at sales@gmt.com.tw

Note:T1: SOT-23-5 TO: TSOT-23-5 T2: SOT-89

1: Bonding Code

U: Tape & Reel

**Pin Configuration****Typical Application Circuit**