

**12V 1A Low Dropout Regulator****Features**

- Dropout Voltage 0.5V @ $I_o = 0.5A$
- Over Current Protection Excess 1.3A
- Output Voltage Accuracy $\pm 2.5\%$
- Quiescent Current, Typically 1.2mA
- Internal Short Circuit Current Limit
- Internal Over Temperature Protection
- TO-252 3pin Full-Mold Package

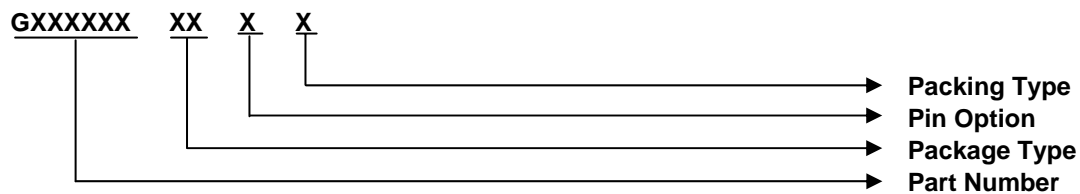
General Description

The G78D12A positive 12V voltage regulator features the ability to source 1A of output current. The dropout voltage is 0.5V at 0.5A output current. The typical quiescent current is 1.2mA. Furthermore, the quiescent current is smaller when the regulator is in the dropout mode ($V_{IN} < 12V$).

Familiar regulator features such as over temperature and over current protection circuits are provided to prevent it from being damaged by abnormal operating conditions.

Ordering Information

ORDER NUMBER	MARKING	TEMP. RANGE	PACKAGE (Green)	PIN OPTION		
				1	2	3
G78D12AT45U	78D12AT45	-40°C to +85°C	TO-252	V_{IN}	GND	V_{OUT}
G78D12AT45D	78D12AT45	-40°C to +85°C	TO-252	V_{IN}	GND	V_{OUT}

Order Number Identification**PACKAGE TYPE**

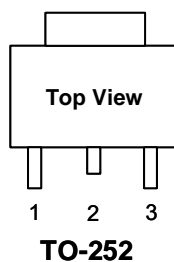
T4: TO-252

PIN OPTION

1 2 3
5: V_{IN} GND V_{OUT}

PACKING

U & D: Tape & Reel

Pin Configuration**Typical Application Circuit**