

5V~12V 1A Low Dropout Regulator

Features

- Dropout Voltage 0.9V @ $I_o = 1A$
- Dropout Voltage 0.45V @ $I_o = 0.5A$
- Output Current in Excess of 1A
- Output Voltage Accuracy $\pm 2.5\%$
- Quiescent Current, Typically 1.2mA
- Internal Short Circuit Current Limit
- Internal Over Temperature Protection
- TO-252 and TO-263T 3pin Package

General Description

The G98MXX positive voltage regulator is a family with output voltage from 5V to 12V, step 1V. It features the ability to source 1A of output current. The dropout voltage is 0.9V at 1A output current. The typical quiescent current is 1.2mA. Furthermore, the quiescent current is smaller when the regulator is in the dropout mode ($V_{IN} < V_{OUT}$).

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	VOLTAGE	TEMP. RANGE	PIN OPTION			PACKAGE (Green)	REMARK
				1	2	3		
G98M05T45U	98M05	5V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-252	
G98M08T45U	98M08	8V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-252	
G98M09T45U	98M09	9V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-252	
G98M12T45U	98M12	12V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-252	
G98M05T45D	98M05	5V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-252	
G98M08T45D	98M08	8V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-252	
G98M09T45D	98M09	9V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-252	
G98M12T45D	98M12	12V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-252	
G98M05TU3U	98M05TU3	5V	-40°C~85°C	GND	V_{OUT}	V_{IN}	TO-263T	OBSOLETE
G98M08TU3U	98M08TU3	8V	-40°C~85°C	GND	V_{OUT}	V_{IN}	TO-263T	OBSOLETE
G98M09TU3U	98M09TU3	9V	-40°C~85°C	GND	V_{OUT}	V_{IN}	TO-263T	OBSOLETE
G98M12TU3U	98M12TU3	12V	-40°C~85°C	GND	V_{OUT}	V_{IN}	TO-263T	OBSOLETE
G98M05TU5U	98M05TU5	5V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-263T	OBSOLETE
G98M08TU5U	98M08TU5	8V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-263T	OBSOLETE
G98M09TU5U	98M09TU5	9V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-263T	OBSOLETE
G98M12TU5U	98M12TU5	12V	-40°C~85°C	V_{IN}	GND	V_{OUT}	TO-263T	OBSOLETE

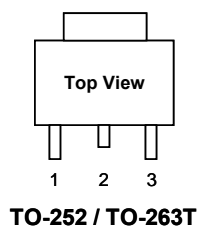
* For other package types, pin options and package, please contact us at sales@gmt.com.tw

Note: T4:TO-252 TU: TO-263T

3 & 5: Bonding Code

U & D: Tape & Reel

Package Type



Typical Application Circuit

