3.3V 1A Low Dropout Regulator

Features

- **Dropout voltage typically 0.8V @ I_O = 1A**
- **Output current in excess of 1A**
- **Output voltage accuracy ±2%**
- **Quiescent current, typically 600μA**
- **Internal short circuit current limit**
- **Internal over temperature protection**

Applications

- **CD-R/W**
- **ADSL**
- **Cable Modem**
- **Set-Top-Box**
- **LAN switch/Hub**
- **Router**
- **DVD-R/W**

General Description

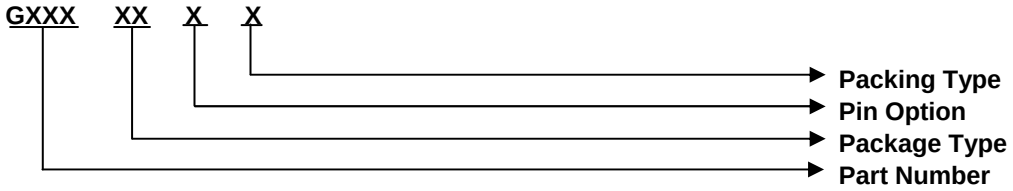
The G960 positive 3.3V voltage regulator features the ability to source 1A of output current with a dropout voltage of typically 0.8V over the entire operating temperature range. A low quiescent current is provided over the entire current output current range. The typical quiescent current is 0.6mA. Furthermore, the quiescent current is smaller when the regulator is in the dropout mode (V_{IN} < 3.3V).

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 (Pb free/Green)	MARKING	TEMP. RANGE	PACKAGE	PIN OPTION		
				1	2	3
G960T33Tf	960T33	-40°C~85°C	TO-220	GND	V_{OUT}	V_{IN}
G960T35Tf	960T35	-40°C~85°C	TO-220	V_{IN}	GND	V_{OUT}
G960T36Tf	960T36	-40°C~85°C	TO-220	V_{IN}	V_{OUT}	GND
G960T43Uf	960T43	-40°C~85°C	TO-252	GND	V_{OUT}	V_{IN}
G960T45Uf	960T45	-40°C~85°C	TO-252	V_{IN}	GND	V_{OUT}
G960T43D	960T43	-40°C~85°C	TO-252	GND	V_{OUT}	V_{IN}
G960T45D	960T45	-40°C~85°C	TO-252	V_{IN}	GND	V_{OUT}
G960T53Uf	960T53	-40°C~85°C	TO-263	GND	V_{OUT}	V_{IN}
G960T63Uf	960T63	-40°C~85°C	SOT-223	GND	V_{OUT}	V_{IN}
G960T65Uf	960T65	-40°C~85°C	SOT-223	V_{IN}	GND	V_{OUT}

Order Number Identification



PACKAGE TYPE

T3 : TO-220
T4 : TO-252
T5 : TO-263
T6 : SOT-223

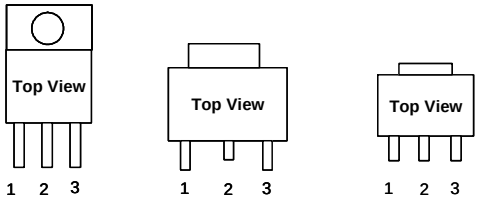
PIN OPTION

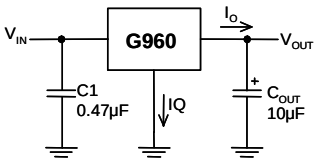
1	2	3
1 : V_{OUT}	GND	V_{IN}
2 : V_{OUT}	V_{IN}	GND
3 : GND	V_{OUT}	V_{IN}
4 : GND	V_{IN}	V_{OUT}
5 : V_{IN}	GND	V_{OUT}
6 : V_{IN}	V_{OUT}	GND

PACKING

U & D : Tape & Reel Direction
T : Tube

Package Type



Typical Application

[Note 4] : Type of C_{OUT}