

Description

GM6350 series is a group of positive voltage output, three-pin regulators, that provide a high current even when the input/output voltage differential is small. Low power consumption and high accuracy is achieved through CMOS and programmable fuse technologies, with the output voltage range from 1.5V to 6.0V

GM6350 consists of a high precision voltage reference, an error correction circuit, and a current limited output driver. Transient response to load variations has been improved in comparison to the existing series. The GM6350 incorporates both over temperature and over current protection.

Features

- ◆ Maximum output current up 450mA
- ◆ Output voltage from 1.5V to 6.0V in 0.1V increments
- ◆ Output voltage accuracy : $\pm 2\%$
- ◆ CMOS low power consumption, typically $15\mu\text{A}$ at $V_{\text{OUT}} = 5.0\text{V}$
- ◆ Input stability: typically $0.2\%/V$
- ◆ Ultra low dropout voltage: 0.3V @ $I_{\text{OUT}} = 300\text{mA}$ at $V_{\text{OUT}} = 5.0\text{V}$
- ◆ SOT-23 (150mW), SOT-89 (500mW) and TO-92 packages

Application

Palmtops

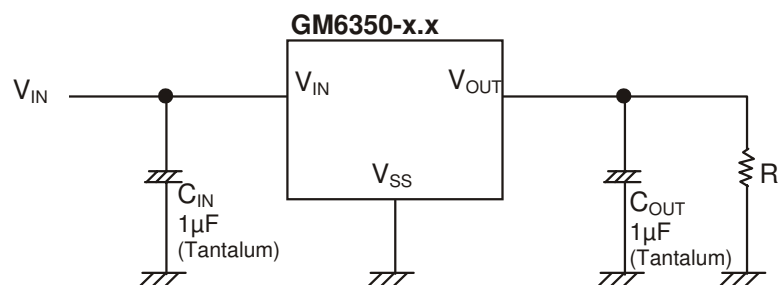
Portable Cameras

Video Recorders

Battery Powered Equipment

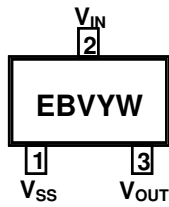
Reference Voltage Sources

Typical Application Circuits

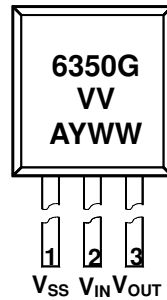


Marking Information and Pin Configurations (Top View)

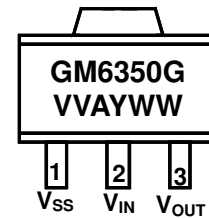
SOT23



TO92



SOT89



EB: Product Code
 G: Green Product
 V: Voltage Code (see next page)
 VV: Voltage suffix (18 = 1.8V, 50 = 5.0V...)
 Y: Year
 W: Week code
 WW: Week

Ordering Information

Ordering Number	Output Voltage	Voltage Code	Package	Shipping
GM6350-1.5T92BG	1.5V		TO-92	1,000 Units/Bag
GM6350-1.5T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-1.5ST23RG		C	SOT-23	3,000 Units/Tape and Reel
GM6350-1.5ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-1.8T92BG	1.8V		TO-92	1,000 Units/Bag
GM6350-1.8T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-1.8ST23RG		E	SOT-23	3,000 Units/Tape and Reel
GM6350-1.8ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-2.2T92BG	2.2V		TO-92	1,000 Units/Bag
GM6350-2.2T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-2.2ST23RG		D	SOT-23	3,000 Units/Tape and Reel
GM6350-2.2ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-2.5T92BG	2.5V		TO-92	1,000 Units/Bag
GM6350-2.5T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-2.5ST23RG		G	SOT-23	3,000 Units/Tape and Reel
GM6350-2.5ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-2.7T92BG	2.7V		TO-92	1,000 Units/Bag
GM6350-2.7T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-2.7ST23RG		T	SOT-23	3,000 Units/Tape and Reel
GM6350-2.7ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-2.8T92BG	2.8V		TO-92	1,000 Units/Bag
GM6350-2.8T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-2.8ST23RG		H	SOT-23	3,000 Units/Tape and Reel
GM6350-2.8ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-2.85T92BG	2.85V		TO-92	1,000 Units/Bag
GM6350-2.85T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-2.85ST23RG		I	SOT-23	3,000 Units/Tape and Reel
GM6350-2.85ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-3.0T92BG	3.0V		TO-92	1,000 Units/Bag
GM6350-3.0T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-3.0ST23RG		J	SOT-23	3,000 Units/Tape and Reel
GM6350-3.0ST89RG			SOT-89	1,000 Units/Tape and Reel

Ordering Information (Continued)

Ordering Number	Output Voltage	Voltage Code	Package	Shipping
GM6350-3.2T92BG	3.2V		TO-92	1,000 Units/Bag
GM6350-3.2T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-3.2ST23RG		U	SOT-23	3,000 Units/Tape and Reel
GM6350-3.2ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-3.3T92BG	3.3V		TO-92	1,000 Units/Bag
GM6350-3.3T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-3.3ST23RG		K	SOT-23	3,000 Units/Tape and Reel
GM6350-3.3ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-3.5T92BG	3.5V		TO-92	1,000 Units/Bag
GM6350-3.5T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-3.5ST23RG		V	SOT-23	3,000 Units/Tape and Reel
GM6350-3.5ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-3.6T92BG	3.6V		TO-92	1,000 Units/Bag
GM6350-3.6T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-3.6ST23RG		L	SOT-23	3,000 Units/Tape and Reel
GM6350-3.6ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-4.0T92BG	4.0V		TO-92	1,000 Units/Bag
GM6350-4.0T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-4.0ST23RG		M	SOT-23	3,000 Units/Tape and Reel
GM6350-4.0ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-4.4T92BG	4.4V		TO-92	1,000 Units/Bag
GM6350-4.4T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-4.4ST23RG		W	SOT-23	3,000 Units/Tape and Reel
GM6350-4.4ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-4.5T92BG	4.5V		TO-92	1,000 Units/Bag
GM6350-4.5T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-4.5ST23RG		N	SOT-23	3,000 Units/Tape and Reel
GM6350-4.5ST89RG			SOT-89	1,000 Units/Tape and Reel
GM6350-5.0T92BG	5.0V		TO-92	1,000 Units/Bag
GM6350-5.0T92RLG			TO-92	2,000 Units/Ammo Pack (Tape)
GM6350-5.0ST23RG		Q	SOT-23	3,000 Units/Tape and Reel
GM6350-5.0ST89RG			SOT-89	1,000 Units/Tape and Reel