

## GE78XX

### 3-TERMINAL POSITIVE VOLTAGE REGULATORS

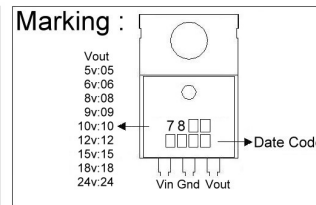
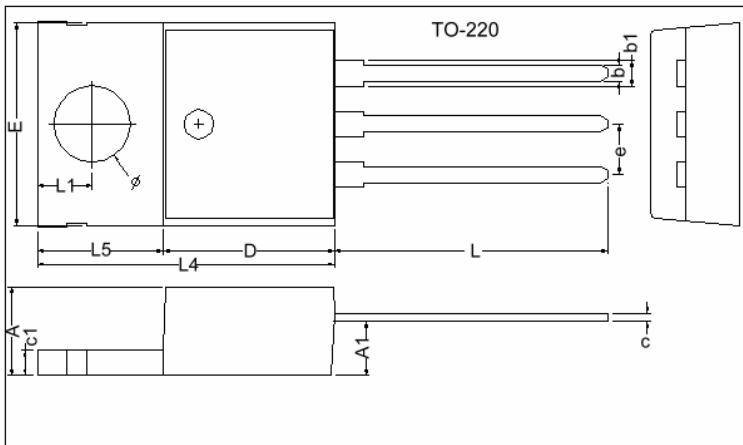
#### Description

The GE78XX series of fixed-voltage monolithic integrated-circuit voltage regulators designed for a wide range of applications. These applications include on-card regulation for elimination of noise and distribution problems associated with single-point regulation. Each of these regulators can deliver up to 1 amperes of output current. The internal current limiting and thermal shutdown features of these regulators make them essentially immune to overload.

#### Features

- 5V, 6V, 8V, 9V, 10V, 12V, 15V, 18V, 24V output voltage available
- Internal Thermal Overload Protection
- High Power Dissipation Capability
- Internal Short-Circuit Current Limiting
- No External Components
- Output Transistor Safe-Area Compensation

#### Package Dimensions



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	4.40	4.80	c1	1.25	1.45
b	0.76	1.00	b1	1.17	1.47
c	0.36	0.50	L	13.25	14.25
D	8.60	9.00	E	2.54 REF.	
E	9.80	10.4	L1	2.60	2.89
L4	14.7	15.3	∅	3.71	3.96
L5	6.20	6.60	A1	2.60	2.80

#### Absolute Maximum Ratings

Parameter		Ratings	Unit
Input voltage	GE7805 ~ 18	35V	V
	GE7824	40V	V
Output current		1	A
Operating junction temperature range		0 ~ 150	°C
Storage temperature range		-55 ~ 150	°C
Thermal resistance junction-air (R <sub>θJA</sub> )		65	°C/W
Thermal resistance junction-cases (R <sub>θJC</sub> )		5	°C/W

## Electrical Characteristics

**GE7805** (Refer to the test circuits, Tj=0~125°C, Io=500mA, Vin=10V, Cin=0.33μF, Co=0.1μF unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	4.85	5.0	5.15	V	Vin=10V, Io=500mA, Tj=25°C 7.5V ≤ Vin ≤ 20V, 5mA ≤ Io ≤ 1A, PD ≤ 15W
	B-Rank (5%)	4.75	-	5.25		
ΔVO (Line Regulation)		-	3	50	mV	7V ≤ Vin ≤ 25V, Io=500mA, Tj=25°C
		-	1	25		8V ≤ Vin ≤ 12V, Io=500mA, Tj=25°C
ΔVO (Load Regulation)		-	-	100	mV	Vin=10V, 5mA ≤ Io ≤ 1A, Tj=25°C
		-	-	50		Vin=10V, 250mA ≤ Io ≤ 750mA, Tj=25°C
IQ		-	-	8.0	mA	Vin=10V, Io=500mA, Tj=25°C
Δ IQ		-	-	0.5	mA	Vin=10V, 5mA ≤ Io ≤ 1A
		-	-	1.3		7V ≤ Vin ≤ 25V, Io=500mA
Vn		-	40	-	μV	10Hz ≤ f ≤ 100KHz, Tj=25°C
RR		-	80	-	dB	8V ≤ Vin ≤ 18V, f=120Hz, Tj=25°C
VD		-	2	-	V	Io=1A, Tj=25°C
Isc		-	250	-	mA	Vin=35V, Tj=25°C
Ipk		-	1.8	-	A	Tj=25°C
ΔVo / ΔTj		-	-0.6	-	mV/°C	Io=5mA, 0°C ≤ Tj ≤ 125°C

**GE7806** (Refer to the test circuits, Tj=0~125°C, Io=500mA, Vin=11V, Cin=0.33μF, Co=0.1μF unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	5.82	6.0	6.18	V	Vin=11V, Io=500mA, Tj=25°C 8V ≤ Vin ≤ 21V, 5mA ≤ Io ≤ 1A, PD ≤ 15W
	B-Rank (5%)	5.70	-	6.30		
ΔVO (Line Regulation)		-	3	60	mV	8V ≤ Vin ≤ 25V, Io=500mA, Tj=25°C
		-	1	25		9V ≤ Vin ≤ 13V, Io=500mA, Tj=25°C
ΔVO (Load Regulation)		-	-	100	mV	Vin=11V, 5mA ≤ Io ≤ 1A, Tj=25°C
		-	-	50		Vin=11V, 250mA ≤ Io ≤ 750mA, Tj=25°C
IQ		-	-	8.0	mA	Vin=11V, Io=500mA, Tj=25°C
Δ IQ		-	-	0.5	mA	Vin=11V, 5mA ≤ Io ≤ 1A
		-	-	1.3		8V ≤ Vin ≤ 25V, Io=500mA
Vn		-	45	-	μV	10Hz ≤ f ≤ 100KHz, Tj=25°C
RR		-	75	-	dB	9V ≤ Vin ≤ 19V, f=120Hz, Tj=25°C
VD		-	2	-	V	Io=1A, Tj=25°C
Isc		-	250	-	mA	Vin=35V, Tj=25°C
Ipk		-	1.8	-	A	Tj=25°C
ΔVo / ΔTj		-	-0.7	-	mV/°C	Io=5mA, 0°C ≤ Tj ≤ 125°C

**GE7808** (Refer to the test circuits,  $T_j=0\sim 125^\circ\text{C}$ ,  $I_o=500\text{mA}$ ,  $V_{in}=14\text{V}$ ,  $C_{in}=0.33\mu\text{F}$ ,  $C_o=0.1\mu\text{F}$  unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	7.76	8.0	8.24	V	$V_{in}=14\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$ $10.5\text{V} \leq V_{in} \leq 23\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $PD \leq 15\text{W}$
	B-Rank (5%)	7.60	-	8.40		
$\Delta VO$ (Line Regulation)		-	3	80	mV	$10.5\text{V} \leq V_{in} \leq 25\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
		-	1	40		$11\text{V} \leq V_{in} \leq 17\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta VO$ (Load Regulation)		-	-	100	mV	$V_{in}=14\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $T_j=25^\circ\text{C}$
		-	-	50		$V_{in}=14\text{V}$ , $250\text{mA} \leq I_o \leq 750\text{mA}$ , $T_j=25^\circ\text{C}$
IQ		-	-	8.0	mA	$V_{in}=14\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta IQ$		-	-	0.5	mA	$V_{in}=14\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$
		-	-	1.3		$10.5\text{V} \leq V_{in} \leq 25\text{V}$ , $I_o=500\text{mA}$
Vn		-	58	-	$\mu\text{V}$	$10\text{Hz} \leq f \leq 100\text{KHz}$ , $T_j=25^\circ\text{C}$
RR		-	72	-	dB	$11.5\text{V} \leq V_{in} \leq 21.5\text{V}$ , $f=120\text{Hz}$ , $T_j=25^\circ\text{C}$
VD		-	2	-	V	$I_o=1\text{A}$ , $T_j=25^\circ\text{C}$
Isc		-	250	-	mA	$V_{in}=35\text{V}$ , $T_j=25^\circ\text{C}$
Ipk		-	1.8	-	A	$T_j=25^\circ\text{C}$
$\Delta Vo / \Delta Tj$		-	-0.9	-	$\text{mV}/^\circ\text{C}$	$I_o=5\text{mA}$ , $0^\circ\text{C} \leq T_j \leq 125^\circ\text{C}$

**GE7809** (Refer to the test circuits,  $T_j=0\sim 125^\circ\text{C}$ ,  $I_o=500\text{mA}$ ,  $V_{in}=15\text{V}$ ,  $C_{in}=0.33\mu\text{F}$ ,  $C_o=0.1\mu\text{F}$  unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	8.73	9.0	9.27	V	$V_{in}=15\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$ $11.5\text{V} \leq V_{in} \leq 24\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $PD \leq 15\text{W}$
	B-Rank (5%)	8.55	-	9.45		
$\Delta VO$ (Line Regulation)		-	5	90	mV	$11.5\text{V} \leq V_{in} \leq 25\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
		-	3	45		$13\text{V} \leq V_{in} \leq 19\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta VO$ (Load Regulation)		-	-	100	mV	$V_{in}=15\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $T_j=25^\circ\text{C}$
		-	-	50		$V_{in}=15\text{V}$ , $250\text{mA} \leq I_o \leq 750\text{mA}$ , $T_j=25^\circ\text{C}$
IQ		-	-	8.0	mA	$V_{in}=15\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta IQ$		-	-	0.5	mA	$V_{in}=15\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$
		-	-	1.3		$11.5\text{V} \leq V_{in} \leq 26\text{V}$ , $I_o=500\text{mA}$
Vn		-	58	-	$\mu\text{V}$	$10\text{Hz} \leq f \leq 100\text{KHz}$ , $T_j=25^\circ\text{C}$
RR		-	72	-	dB	$12.5\text{V} \leq V_{in} \leq 22.5\text{V}$ , $f=120\text{Hz}$ , $T_j=25^\circ\text{C}$
VD		-	2	-	V	$I_o=1\text{A}$ , $T_j=25^\circ\text{C}$
Isc		-	250	-	mA	$V_{in}=35\text{V}$ , $T_j=25^\circ\text{C}$
Ipk		-	1.8	-	A	$T_j=25^\circ\text{C}$
$\Delta Vo / \Delta Tj$		-	-1.1	-	$\text{mV}/^\circ\text{C}$	$I_o=5\text{mA}$ , $0^\circ\text{C} \leq T_j \leq 125^\circ\text{C}$

**GE7810** (Refer to the test circuits,  $T_j=0\sim 125^\circ\text{C}$ ,  $I_o=500\text{mA}$ ,  $V_{in}=16\text{V}$ ,  $C_{in}=0.33\mu\text{F}$ ,  $C_o=0.1\mu\text{F}$  unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	9.70	10.0	10.30	V	$V_{in}=16\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$ $12.5\text{V} \leq V_{in} \leq 25\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $PD \leq 15\text{W}$
	B-Rank (5%)	9.50	-	10.50		
$\Delta VO$ (Line Regulation)		-	-	100	mV	$13\text{V} \leq V_{in} \leq 25\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
		-	-	50		$14\text{V} \leq V_{in} \leq 20\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta VO$ (Load Regulation)		-	-	100	mV	$V_{in}=16\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $T_j=25^\circ\text{C}$
		-	-	50		$V_{in}=16\text{V}$ , $250\text{mA} \leq I_o \leq 750\text{mA}$ , $T_j=25^\circ\text{C}$
IQ		-	-	8.0	mA	$V_{in}=16\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta IQ$		-	-	0.5	mA	$V_{in}=16\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$
		-	-	1.0		$12.5\text{V} \leq V_{in} \leq 25\text{V}$ , $I_o=500\text{mA}$
Vn		-	58	-	$\mu\text{V}$	$10\text{Hz} \leq f \leq 100\text{KHz}$ , $T_j=25^\circ\text{C}$
RR		-	72	-	dB	$13\text{V} \leq V_{in} \leq 23\text{V}$ , $f=120\text{Hz}$ , $T_j=25^\circ\text{C}$
VD		-	2	-	V	$I_o=1\text{A}$ , $T_j=25^\circ\text{C}$
Isc		-	250	-	mA	$V_{in}=35\text{V}$ , $T_j=25^\circ\text{C}$
Ipk		-	1.8	-	A	$T_j=25^\circ\text{C}$
$\Delta Vo / \Delta Tj$		-	-1.1	-	$\text{mV}/^\circ\text{C}$	$I_o=5\text{mA}$ , $0^\circ\text{C} \leq T_j \leq 125^\circ\text{C}$

**GE7812** (Refer to the test circuits,  $T_j=0\sim 125^\circ\text{C}$ ,  $I_o=500\text{mA}$ ,  $V_{in}=19\text{V}$ ,  $C_{in}=0.33\mu\text{F}$ ,  $C_o=0.1\mu\text{F}$  unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	11.64	12.0	12.36	V	$V_{in}=19\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$ $14.5\text{V} \leq V_{in} \leq 27\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $PD \leq 15\text{W}$
	B-Rank (5%)	11.40	-	12.60		
$\Delta VO$ (Line Regulation)		-	10	120	mV	$14.5\text{V} \leq V_{in} \leq 30\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
		-	3	60		$16\text{V} \leq V_{in} \leq 22\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta VO$ (Load Regulation)		-	-	100	mV	$V_{in}=19\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $T_j=25^\circ\text{C}$
		-	-	60		$V_{in}=19\text{V}$ , $250\text{mA} \leq I_o \leq 750\text{mA}$ , $T_j=25^\circ\text{C}$
IQ		-	-	8.0	mA	$V_{in}=19\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta IQ$		-	-	0.5	mA	$V_{in}=19\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$
		-	-	1.3		$14.5\text{V} \leq V_{in} \leq 30\text{V}$ , $I_o=500\text{mA}$
Vn		-	75	-	$\mu\text{V}$	$10\text{Hz} \leq f \leq 100\text{KHz}$ , $T_j=25^\circ\text{C}$
RR		-	72	-	dB	$15\text{V} \leq V_{in} \leq 25\text{V}$ , $f=120\text{Hz}$ , $T_j=25^\circ\text{C}$
VD		-	2	-	V	$I_o=1\text{A}$ , $T_j=25^\circ\text{C}$
Isc		-	250	-	mA	$V_{in}=35\text{V}$ , $T_j=25^\circ\text{C}$
Ipk		-	1.8	-	A	$T_j=25^\circ\text{C}$
$\Delta Vo / \Delta Tj$		-	-1.5	-	$\text{mV}/^\circ\text{C}$	$I_o=5\text{mA}$ , $0^\circ\text{C} \leq T_j \leq 125^\circ\text{C}$

**GE7815** (Refer to the test circuits,  $T_j=0\sim 125^\circ\text{C}$ ,  $I_o=500\text{mA}$ ,  $V_{in}=23\text{V}$ ,  $C_{in}=0.33\mu\text{F}$ ,  $C_o=0.1\mu\text{F}$  unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	14.55	15.0	15.45	V	$V_{in}=23\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$ $17.5\text{V} \leq V_{in} \leq 30\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $PD \leq 15\text{W}$
	B-Rank (5%)	14.25	-	15.75		
$\Delta\text{VO}$ (Line Regulation)		-	-	150	mV	$17.5\text{V} \leq V_{in} \leq 30\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
		-	-	75		$18.5\text{V} \leq V_{in} \leq 30\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta\text{VO}$ (Load Regulation)		-	-	150	mV	$V_{in}=23\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $T_j=25^\circ\text{C}$
		-	-	75		$V_{in}=23\text{V}$ , $250\text{mA} \leq I_o \leq 750\text{mA}$ , $T_j=25^\circ\text{C}$
IQ		-	-	8.0	mA	$V_{in}=23\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta\text{IQ}$		-	-	0.5	mA	$V_{in}=23\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$
		-	-	1.3		$17.5\text{V} \leq V_{in} \leq 30\text{V}$ , $I_o=500\text{mA}$
Vn		-	90	-	$\mu\text{V}$	$10\text{Hz} \leq f \leq 100\text{KHz}$ , $T_j=25^\circ\text{C}$
RR		-	70	-	dB	$18.5\text{V} \leq V_{in} \leq 28.5\text{V}$ , $f=120\text{Hz}$ , $T_j=25^\circ\text{C}$
VD		-	2	-	V	$I_o=1\text{A}$ , $T_j=25^\circ\text{C}$
Isc		-	250	-	mA	$V_{in}=35\text{V}$ , $T_j=25^\circ\text{C}$
Ipk		-	1.8	-	A	$T_j=25^\circ\text{C}$
$\Delta\text{Vo} / \Delta\text{Tj}$		-	-1.8	-	$\text{mV}/^\circ\text{C}$	$I_o=5\text{mA}$ , $0^\circ\text{C} \leq T_j \leq 125^\circ\text{C}$

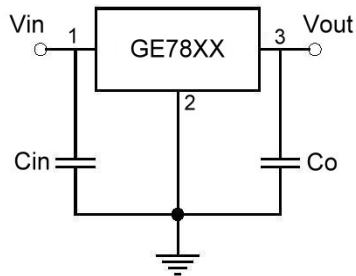
**GE7818** (Refer to the test circuits,  $T_j=0\sim 125^\circ\text{C}$ ,  $I_o=500\text{mA}$ ,  $V_{in}=27\text{V}$ ,  $C_{in}=0.33\mu\text{F}$ ,  $C_o=0.1\mu\text{F}$  unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	17.46	18.0	18.54	V	$V_{in}=27\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$ $21\text{V} \leq V_{in} \leq 33\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $PD \leq 15\text{W}$
	B-Rank (5%)	17.10	-	18.9		
$\Delta\text{VO}$ (Line Regulation)		-	-	180	mV	$21\text{V} \leq V_{in} \leq 33\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
		-	-	90		$24\text{V} \leq V_{in} \leq 30\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta\text{VO}$ (Load Regulation)		-	-	180	mV	$V_{in}=27\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $T_j=25^\circ\text{C}$
		-	-	90		$V_{in}=27\text{V}$ , $250\text{mA} \leq I_o \leq 750\text{mA}$ , $T_j=25^\circ\text{C}$
IQ		-	-	8.0	mA	$V_{in}=27\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta\text{IQ}$		-	-	0.5	mA	$V_{in}=27\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$
		-	-	1.0		$21\text{V} \leq V_{in} \leq 33\text{V}$ , $I_o=500\text{mA}$
Vn		-	110	-	$\mu\text{V}$	$10\text{Hz} \leq f \leq 100\text{KHz}$ , $T_j=25^\circ\text{C}$
RR		-	69	-	dB	$22\text{V} \leq V_{in} \leq 32\text{V}$ , $f=120\text{Hz}$ , $T_j=25^\circ\text{C}$
VD		-	2	-	V	$I_o=1\text{A}$ , $T_j=25^\circ\text{C}$
Isc		-	250	-	mA	$V_{in}=35\text{V}$ , $T_j=25^\circ\text{C}$
Ipk		-	1.8	-	A	$T_j=25^\circ\text{C}$
$\Delta\text{Vo} / \Delta\text{Tj}$		-	-2.2	-	$\text{mV}/^\circ\text{C}$	$I_o=5\text{mA}$ , $0^\circ\text{C} \leq T_j \leq 125^\circ\text{C}$

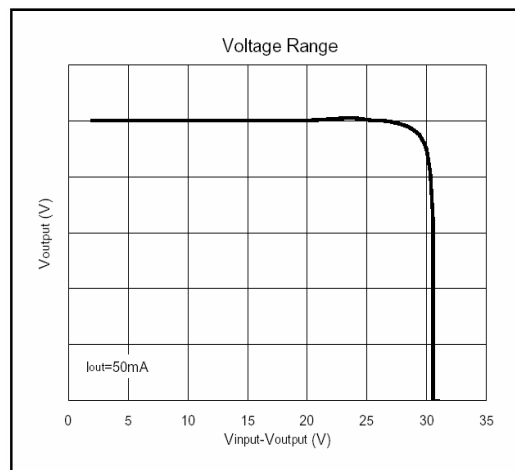
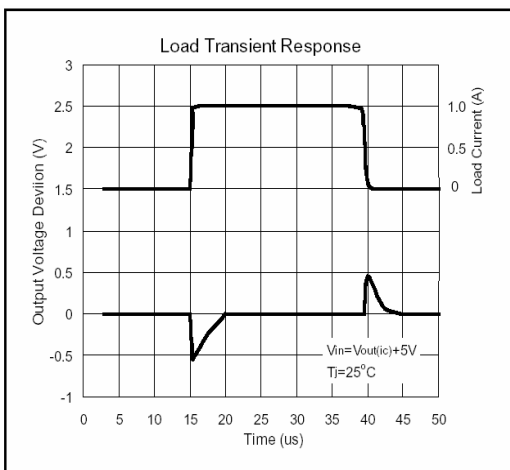
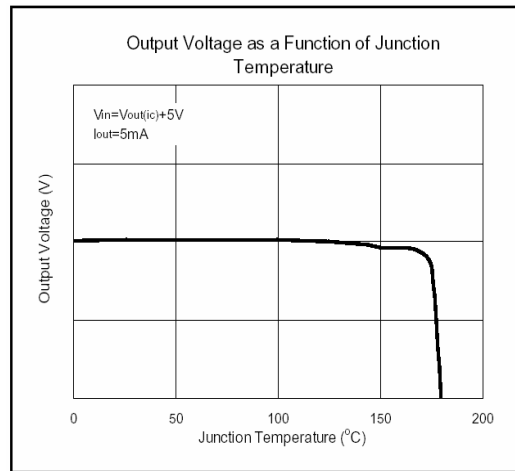
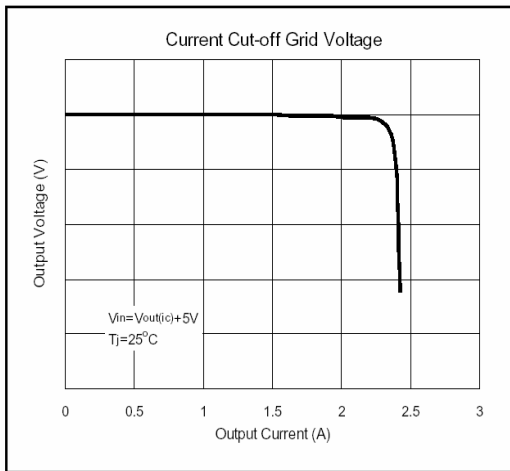
**GE7824** (Refer to the test circuits,  $T_j=0\sim 125^\circ\text{C}$ ,  $I_o=500\text{mA}$ ,  $V_{in}=33\text{V}$ ,  $C_{in}=0.33\mu\text{F}$ ,  $C_o=0.1\mu\text{F}$  unless otherwise specified)

Symbol		Min.	Typ.	Max.	Unit	Test Conditions
VO	A-Rank (3%)	23.28	24.0	24.72	V	$V_{in}=33\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$ $27\text{V} \leq V_{in} \leq 38\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $PD \leq 15\text{W}$
	B-Rank (5%)	22.80	-	25.20		
$\Delta VO$ (Line Regulation)		-	-	240	mV	$27\text{V} \leq V_{in} \leq 38\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
		-	-	120		$30\text{V} \leq V_{in} \leq 36\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta VO$ (Load Regulation)		-	-	240	mV	$V_{in}=33\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$ , $T_j=25^\circ\text{C}$
		-	-	120		$V_{in}=33\text{V}$ , $250\text{mA} \leq I_o \leq 750\text{mA}$ , $T_j=25^\circ\text{C}$
IQ		-	-	8.0	mA	$V_{in}=33\text{V}$ , $I_o=500\text{mA}$ , $T_j=25^\circ\text{C}$
$\Delta IQ$		-	-	0.5	mA	$V_{in}=33\text{V}$ , $5\text{mA} \leq I_o \leq 1\text{A}$
		-	-	1.0		$28\text{V} \leq V_{in} \leq 38\text{V}$ , $I_o=500\text{mA}$
Vn		-	170	-	$\mu\text{V}$	$10\text{Hz} \leq f \leq 100\text{KHz}$ , $T_j=25^\circ\text{C}$
RR		-	66	-	dB	$28\text{V} \leq V_{in} \leq 38\text{V}$ , $f=120\text{Hz}$ , $T_j=25^\circ\text{C}$
VD		-	2	-	V	$I_o=1\text{A}$ , $T_j=25^\circ\text{C}$
Isc		-	250	-	mA	$V_{in}=35\text{V}$ , $T_j=25^\circ\text{C}$
Ipk		-	1.8	-	A	$T_j=25^\circ\text{C}$
$\Delta V_o / \Delta T_j$		-	-2.8	-	$\text{mV}/^\circ\text{C}$	$I_o=5\text{mA}$ , $0^\circ\text{C} \leq T_j \leq 125^\circ\text{C}$

## Typical Application



## Characteristics Curve



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