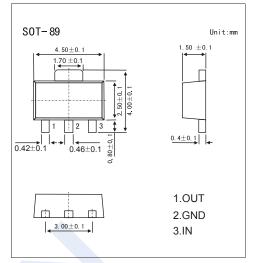
SMD Type

Three-Terminal Positive Voltage Regulator

KA180O12

Features

- Maximum Output current Io: 0.1A
- Output Voltage Vo: 12V
- Continuous Total Dissipation PD: 0.5W (Ta = 25℃)
- Marking Code: KL12



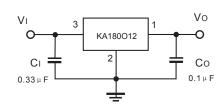
Absolute Maximum Ratings (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Rating	Unit
Input Voltage	Vı	35	V
Operating Junction Temperature Range	Topr	-55 \sim +125	Ĉ
Storage Temperature Range	Tstg	-55 \sim +150	°C

■ Electrical Characteristics (VI=19V, IO=40mA,CI=0.33 µ F,CO=0.1 µ F, unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Output Voltage		TJ = 25℃	11.5	12	12.5	V
	Vo	TJ = 0∼125℃, 14V≤VI≤27V, Io=1mA~40mA	11.4	12	12.6	V
		TJ = 0∼125℃, Io=1mA∼70mA	11.4	12	12.6	V
Load Regulation	∆Vo	TJ = 25℃, Io=1mA~100mA		22	100	mV
		TJ = 25℃, Io=1mA~40mA		13	50	mV
Line Regulation	∧Vo	TJ = 25℃, 14.5V≪VI≪27V		55	250	mV
		TJ = 25℃, 16V≪VI≪27V		49	200	mV
Quiescent Current	lq	TJ = 25℃		4.3	6.5	mA
Quiescent current Change		TJ = 0∼125℃, 16V≪VI≪27V			1.5	mA
		TJ = 0∼125℃, 1mA≪lo≪40mA			0.1	ШA
Output Noise Voltage	VN	TJ = 25℃, 10Hz≪f≪100KHz		70		μV
Ripple Rejection	RR	TJ = 0∼125℃, 15V≪VI≪25V, f = 120Hz	37	42		dB
Dropout Voltage	Vd	TJ = 25℃		1.7		V

Typical Application



Note:Bypass capacitors are recommended for optimum stability and transient response and should be located as close as possible to the regulators.

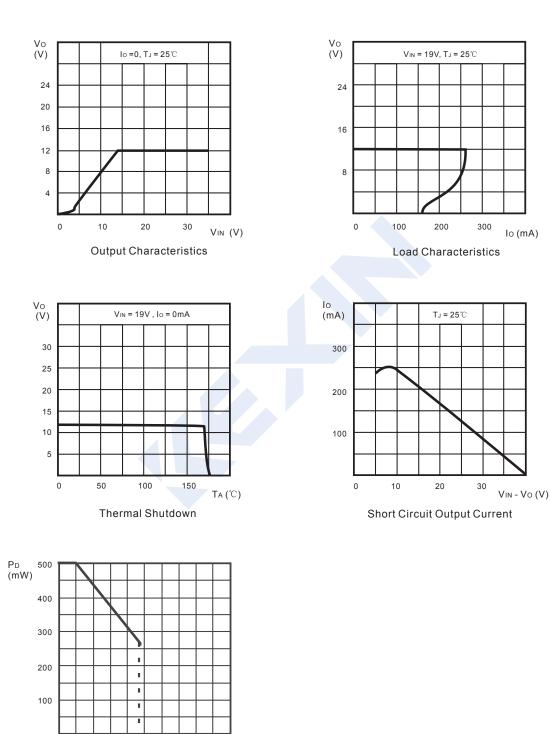


SMD Type

IC



Typical Characteristics



25 50 75 100 125 TA (°C) Power Dissipation vs. Ambient Temperature



2