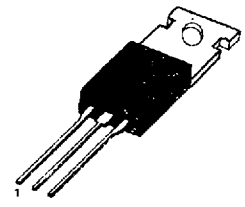
3-TERMINAL 1A POSITIVE VOLTAGE REGULATORS

The KA340XX series ot three.terminai positive voltage regulators are available in TO-220 package and with several fixed output voltages, providing better performance than 78XX series regulators

TO-220



1: Input 2: GND 3: Output

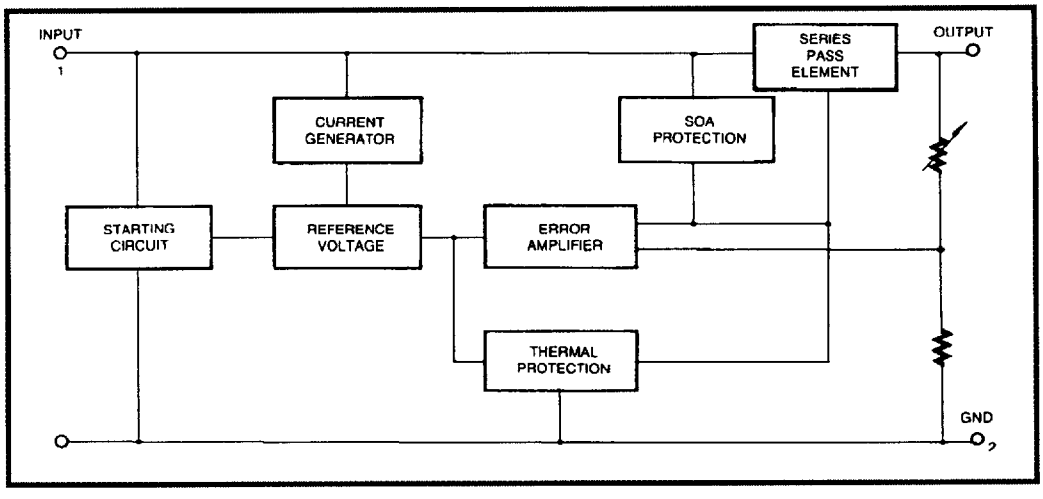
FEATURES

- Maximum output current: 1.5A
- Output voltage of 5, 6, 8, 9, 10,11, 12,15, 18, 24V
- Superior line and load regulation than 78XX series
- Output transistor SOA protection
- Internal short-circuit current limit
- Thermal overload protection

ORDERING INFORMATION

Device	Package	Operating Temperature
KA340TXX	TO-220	0 ~ + 125℃

BLOCK DIAGRAM



ABSOLUTE MAXIMUM RATINGS (T_A=25℃ unless otherwise specified)

Characteristic	Symbol	Value	Unit
Input Voltage (for V_O = 5V)	V_I	35	V
Thermal Resisstance Junction-Cases	R_{EJC}	5	℃/W
Thermal Resistance Junction-Air	R_{EJA}	65	℃/W
Operating Temperature Range	T_{OPR}	0 ~ +125	℃
Storage Temperature	T_{STG}	-65 ~ + 150	℃

KA340T05 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, 0℃ ≤ T_j ≤ 125℃, V_I = 10V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA ≤ I_O ≤ 1.0A		4.80	5.00	5.20	V
		5mA ≤ I_O ≤ 1.0A, PD ≤ 15W V_I = 7.5V to 20V		4.75	—	5.25	
Line Regulation	ΔV_O	T_J = 25℃, V_I = 7V to 25V		—	3	50	mV
		V_I = 8V to 20V		—	—	50	
		I_O ≤ 1A	V_I = 8V to 12V	—	—	25	
			V_I = 7.5V to 20V T_J = 25℃	—	—	50	
Load Regulation	ΔV_O	T_J = 25℃	5mA ≤ I_O ≤ 1.5A	—	10	50	mV
			0.25A ≤ I_O ≤ 0.75A	—	—	25	
		5mA ≤ I_O ≤ 1A		—	—	50	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_Q	5mA ≤ I_O ≤ 1A		—	—	0.5	mA
		T_J = 25℃ I_O ≤ 1A, V_I = 7.5V to 20V		—	—	1.0	
		V_I = 7V to 25V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	40	—	μV
Ripple Rejection	RR	f = 120Hz, V_I = 8V to 18V T_J = 25℃		62	80	—	dB
		f = 120Hz, V_I = 8V to 18V 0℃ ≤ T_J ≤ 125℃		62	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average T_C of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±0.6	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	17	—	mΩ

• Load and line regulation are specified at a constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

KA340T06 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, $0℃ \leq T_j \leq 125℃$, V_I = 11V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA≤I_O≤1.0A		5.75	6.00	6.26	V
		5mA≤I_O≤1.0A, PD≤15W V_I = 8.5V to 21V		5.70	—	6.30	
Line Regulation	ΔV_O	T_J = 25℃, V_I = 7V to 25V		—	3	60	mV
		V_I = 9V to 21V		—	—	60	
		I_O≤1A	V_I = 9V to 13V	—	—	30	
			V_I = 8.5V to 21V T_J = 25℃	—	—	60	
Load Regulation	ΔV_O	T_J = 25℃	5mA≤I_O≤1.5A	—	10	60	mV
			0.25A≤I_O≤0.75A	—	—	30	
		5mA≤I_O≤1A		—	—	60	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_O	5mA≤I_O≤1A		—	—	0.5	mA
		T_J = 25℃ I_O≤1A, V_I = 8.5V to 22V		—	—	1.0	
		V_I = 8V to 25V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	45	—	μV
Ripple Rejection	RR	f = 120Hz, V_I = 9V to 19V T_J = 25℃		59	75	—	dB
		f = 120Hz, V_I = 9V to 19V 0℃ ≤ T_J ≤ 125℃		59	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average TC of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±0.7	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	18	—	mΩ

★ Load and line regulation are specified at a constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testion with low duty cycle is used.

KA340T08 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, $0℃ \leq T_j \leq 125℃$, V_I = 14V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA ≤ I_O ≤ 1.0A		7.70	8.00	8.30	V
		5mA ≤ I_O ≤ 1.0A, PD ≤ 15W V_I = 10.5V to 23V		7.60	—	8.40	
Line Regulation	ΔV_O	T_J = 25℃, V_I = 7V to 25V		—	3	80	mV
		V_I =11V to 23V		—	—	80	
		I_O ≤ 1A	V_I = 11.5V to 17V	—	—	40	
			V_I = 10.5V to 23V T_J = 25℃	—	—	80	
Load Regulation	ΔV_O	T_J = 25℃	5mA ≤ I_O ≤ 1.5A	—	10	80	mV
			0.25A ≤ I_O ≤ 0.75A	—	—	40	
		5mA ≤ I_O ≤ 1A		—	—	80	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_Q	5mA ≤ I_O ≤ 1A		—	—	0.5	mA
		T_J = 25℃ I_O ≤ 1A, V_I = 10.5V to 23V		—	—	1.0	
		V_I = 10.5V to 25V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	52	—	μV
Ripple Rejection	RR	f = 120Hz, V_I = 11.5V to 21.5V T_J = 25℃		56	72	—	dB
		f = 120Hz, V_I = 11V to 21.5V 0℃ ≤ T_J ≤ 125℃		56	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average TC of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±0.9	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	20	—	mΩ

* Load and line requlation are specified at a constant jundtion temperature. Changes in V_O due to heating effects must be taken into account spearately. Pulse testing with low duty cycle is used.

KA340T09 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, 0℃ ≤ T_j ≤ 125℃, V_I = 15V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA ≤ I_O ≤ 1.0A		8.65	9.00	9.35	V
		5mA ≤ I_O ≤ 1.0A, PD ≤ 15W V_I = 11.5V to 24V		8.60	—	9.40	
Line Regulation	ΔV_O	T_J = 25℃, V_I = 11.5V to 25V		—	3	90	mV
		V_I =12V to 24V		—	—	90	
		I_O ≤ 1A	V_I = 12V to 19V	—	—	45	
			V_I = 11.5V to 24V T_J = 25℃	—	—	90	
Load Regulation	ΔV_O	T_J = 25℃	5mA ≤ I_O ≤ 1.5A	—	10	90	mV
			0.25A ≤ I_O ≤ 0.75A	—	—	45	
		5mA ≤ I_O ≤ 1A		—	—	90	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_O	5mA ≤ I_O ≤ 1A		—	—	0.5	mA
		T_J = 25℃ I_O ≤ 1A, V_I = 11.5V to 24V		—	—	1.0	
		V_I = 11.5V to 25V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	58	—	μV
Ripple Rejection	RR	f = 120Hz, V_I = 12.5V to 22.5V T_J = 25℃		56	72	—	dB
		f = 120Hz, V_I = 12.5V to 22.5V 0℃ ≤ T_J ≤ 125℃		56	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average TC of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±1.0	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	22	—	mΩ

*Load and line regulation are specified at a constant junction temperature. Changes in V_O due to heating effects must be taken into account separately. Pulse testing with low duty cycle is used.

KA340T10 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, 0℃ ≤ T_j ≤ 125℃, V_I = 16V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA≤I_O≤1.0A		9.60	10.00	10.40	V
		5mA≤I_O≤1.0A, PD≤15W V_I = 12.5V to 25V		9.50	—	10.50	
Line Regulation	ΔV_O	T_J = 25℃, V_I = 11.5V to 25V		—	3	100	mV
		V_I =13V to 25V		—	—	100	
		I_O≤1A	V_I = 13V to 20V	—	—	50	
			V_I = 12.5V to 25V T_J = 25℃	—	—	100	
Load Regulation	ΔV_O	T_J =25℃	5mA≤I_O≤1.5A	—	10	100	mV
			0.25A≤I_O≤0.75A	—	—	50	
		5mA≤I_O≤1A		—	—	100	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_Q	5mA≤I_O≤1A		—	—	0.5	mA
		T_J = 25℃ I_O≤1A, V_I = 12.6V to 25V		—	—	1.0	
		V_I = 12.6V to 25V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	58	—	μV
Ripple Rejection	RR	f = 120Hz, V_I = 13V to 23V T_J = 25℃		56	72	—	dB
		f = 120Hz, V_I = 13V to 23V 0℃ ≤ T_J ≤ 125℃		56	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average TC of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±1.1	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	24	—	mΩ

KA340T11 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, $0℃ \leq T_j \leq 125℃$, V_I = 18V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA≤I_O≤1.0A		11.60	11.00	11.40	V
		5mA≤I_O≤1.0A, PD≤15W V_I = 13.5V to 26V		10.50	—	11.50	
Line Regulation	ΔV_O	T_J = 25℃, V_I = 13.5V to 25V		—	3	110	mV
		V_I =14V to 26V		—	—	110	
		I_O≤1A	V_I = 14V to 21V	—	—	55	
			V_I = 13.5V to 26V T_J = 25℃	—	—	110	
Load Regulation	ΔV_O	T_J = 25℃	5mA≤I_O≤1.5A	—	10	110	mV
			0.25A≤I_O≤0.75A	—	—	55	
		5mA≤I_O≤1A		—	—	110	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤T_J≤125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_Q	5mA≤I_O≤1A		—	—	0.5	mA
		T_J = 25℃ I_O≤1A, V_I = 13.7V to 26V		—	—	1.0	
		V_I = 13.5V to 25V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	70	—	μA
Ripple Rejection	RR	f = 120Hz, V_I = 14V to 24V T_J = 25℃		55	72	—	dB
		f = 120Hz, V_I = 14V to 24V 0℃ ≤T_J≤125℃		55	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average T_C of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±1.3	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	26	—	mΩ

KA340T12 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, 0℃ ≤ T_j ≤ 125℃, V_I = 189V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA ≤ I_O ≤ 1.0A		11.50	12.00	12.50	V
		5mA ≤ I_O ≤ 1.0A, P_D ≤ 15W V_I = 14.5V to 27V		11.40	—	12.60	
Line Regulation	ΔV_O	T_J = 25℃, V_I = 14.5V to 30V		—	4	120	mV
		V_I =15V to 27V		—	—	120	
		I_O ≤ 1A	V_I = 16V to 22V	—	—	55	
			V_I = 14.6V to 27V T_J = 25℃	—	—	120	
Load Regulation	ΔV_O	T_J = 25℃	5mA ≤ I_O ≤ 1.5A	—	12	120	mV
			0.25A ≤ I_O ≤ 0.75A	—	—	60	
		5mA ≤ I_O ≤ 1A		—	—	120	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_Q	5mA ≤ I_O ≤ 1A		—	—	0.5	mA
		T_J = 25℃ I_O ≤ 1A, V_I = 14.8V to 27V		—	—	1.0	
		V_I = 14.5V to 30V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	75	—	μA
Ripple Rejection	RR	f = 120Hz, V_I = 15V to 25V T_J = 25℃		55	72	—	dB
		f = 120Hz, V_I = 15V to 25V 0℃ ≤ T_J ≤ 125℃		55	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average T_C of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±1.5	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	28	—	mΩ

KA340T15 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, 0℃ ≤ T_j ≤ 125℃, V_I = 23V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA ≤ I_O ≤ 1.0A		14.40	15.00	15.60	V
		5mA ≤ I_O ≤ 1.0A, PD ≤ 15W V_I = 17.5V to 30V		14.25	—	15.75	
Line Regulation	ΔV_O	T_J = 25℃, V_I = 17.5V to 30V		—	4	150	mV
		V_I =18.5V to 30V		—	—	150	
		I_O ≤ 1A	V_I = 20V to 26V	—	—	60	
			V_I = 17.7V to 30V T_J = 25℃	—	—	120	
Load Regulation	ΔV_O	T_J = 25℃	5mA ≤ I_O ≤ 1.5A	—	12	150	mV
			0.25A ≤ I_O ≤ 0.75A	—	—	75	
		5mA ≤ I_O ≤ 1A		—	—	150	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_Q	5mA ≤ I_O ≤ 1A		—	—	0.5	mA
		T_J = 25℃ I_O ≤ 1A, V_I = 17.5V to 30V		—	—	1.0	
		V_I = 11.5V to 25V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	90	—	μA
Ripple Rejection	RR	f = 120Hz, V_I = 18.5V to 28.5V T_J = 25℃		54	70	—	dB
		f = 120Hz, V_I = 15V to 25V 0℃ ≤ T_J ≤ 125℃		54	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average T_C of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±1.8	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	29	—	mΩ

KA340T18 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, 0℃ ≤ T_j ≤ 125℃, V_I = 27V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA ≤ I_O ≤ 1.0A		17.30	18.00	18.70	V
		5mA ≤ I_O ≤ 1.0A, PD ≤ 15W V_I = 21V to 33V		17.10	—	18.90	
Line Regulation	ΔV_O	T_J = 25℃, V_I =21V to 33V		—	5	180	mV
		V_I =22V to 33V		—	—	180	
		I_O ≤ 1A	V_I = 24V to 30V	—	—	90	
			V_I = 21V to 33V T_J = 25℃	—	—	180	
Load Regulation	ΔV_O	T_J = 25℃	5mA ≤ I_O ≤ 1.5A	—	12	180	mV
			0.25A ≤ I_O ≤ 0.75A	—	—	90	
		5mA ≤ I_O ≤ 1A		—	—	180	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_Q	5mA ≤ I_O ≤ 1A		—	—	0.5	mA
		T_J = 25℃ I_O ≤ 1A, V_I = 21.5V to 33V		—	—	1.0	
		V_I = 21V to 33V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	110	—	μA
Ripple Rejection	RR	f = 120Hz, V_I = 22V to 32V T_J = 25℃		53	69	—	dB
		f = 120Hz, V_I = 22V to 32V 0℃ ≤ T_J ≤ 125℃		53	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average T_C of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±2.2	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	32	—	mΩ

KA340T24 ELECTRICAL CHARACTERISTICS

(Refer to test circuit, 0℃ ≤ T_j ≤ 125℃, V_I = 33V, I_O=0.5A, unless otherwise specified)

Characteristic	Symbol	Test Conditions		Min	Typ	Max	Unit
Output Voltage	V_O	T_J = 25℃, 5mA ≤ I_O ≤ 1.0A		23.00	24.00	25.00	V
		5mA ≤ I_O ≤ 1.0A, P_D ≤ 15W V_I = 27V to 38V		22.80	—	25.20	
Line Regulation	ΔV_O	T_J = 25℃, V_I =27V to 38V		—	5	240	mV
		V_I =28V to 38V		—	—	240	
		I_O ≤ 1A	V_I = 30V to 36V	—	—	120	
			V_I = 27V to 38V T_J = 25℃	—	—	240	
Load Regulation	ΔV_O	T_J = 25℃	5mA ≤ I_O ≤ 1.5A	—	12	240	mV
			0.25A ≤ I_O ≤ 0.75A	—	—	120	
		5mA ≤ I_O ≤ 1A		—	—	240	
Quiescent Current	I_Q	I_O = 1A	T_J = 25℃	—	—	8	mA
			0℃ ≤ T_J ≤ 125℃	—	—	8.5	
Quiescent Currnet Change	ΔI_Q	5mA ≤ I_O ≤ 1A		—	—	0.5	mA
		T_J = 25℃ I_O ≤ 1A, V_I = 28 V to 38V		—	—	1.0	
		V_I=27 V to 38V		—	—	1.0	
Output Noise Voltage	V_N	T_A = 25℃, f = 10Hz to 100KHz		—	170	—	μA
Ripple Rejection	RR	f = 120Hz, V_I = 28V to 38V T_J = 25℃		50	66	—	dB
		f = 120Hz, V_I = 28V to 38V 0℃ ≤ T_J ≤ 125℃		50	—	—	
Dropout Voltage	V_D	I_O = 1A, T_J = 25℃		—	2.0	—	V
Peak Output Current	I_{PK}	T_J = 25℃		—	2.2	—	A
Short-Circuit Currnet	I_{SC}	V_I = 35V, T_A = 25℃		—	250	—	mA
Average T_C of V_O	$\Delta V_O/\Delta T$	I_O = 5mA		—	±2.8	—	mV/℃
Output Resistance	R_O	f = 1KHz		—	37	—	mΩ

Dimensions in Milimeters