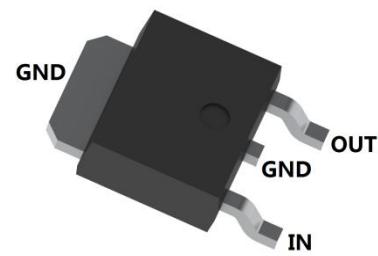
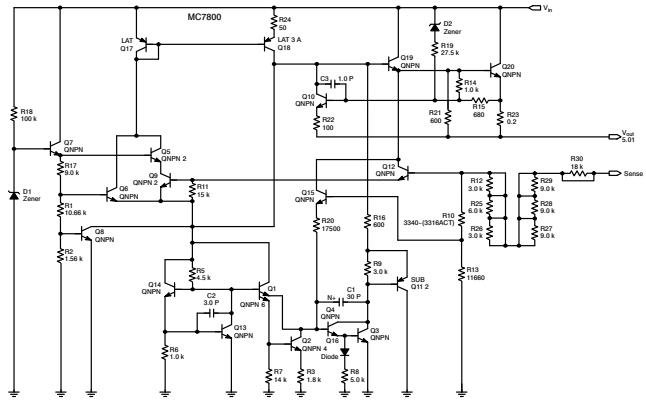


PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

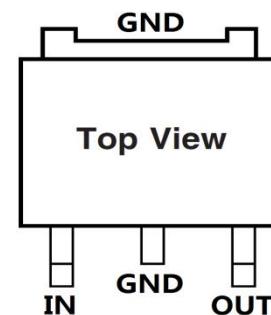
FEATURES

- Maximum Output Current I_o : 1A
- Output Voltage V_o : 5V, 6V, 8V, 9V, 10V, 12V, 15V, 18V, 24V;
- Continuous Total Dissipation
 P_D : 1.25 W ($T_a = 25^\circ C$)
- Surface Mount device

SCHEMATIC DIAGRAM



TO-252



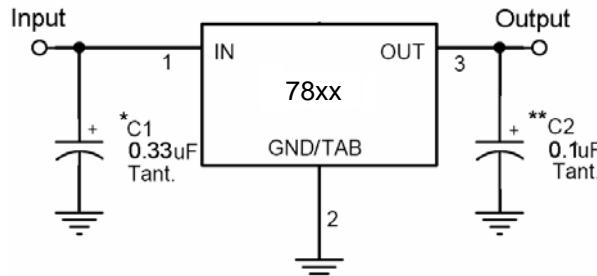
MECHANICAL DATA

- Case: TO-252
- Case Material: Molded Plastic. UL flammability
- Classification Rating: 94V-0
- Weight: 0.055 grams (approximate)

MAXIMUM RATINGS (Operating temperature range applies unless otherwise specified)

Parameter	Symbol	Value	Unit
Input Voltage	V_i	35	V
$V_o=5.0-18V$		40	
Power Dissipation	P_D	Internally Limited	mW
Thermal Resistance from Junction to Ambient	$R_{\theta JA}$	92	°C/W
Operating Junction Temperature	T_J	150	°C
Storage Temperature Range	T_{STG}	-65 ~+150	°C

TYPICAL APPLICATION



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

PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

**ELECTRICAL CHARACTERISTICS OF 7805 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE
($V_i=10V, I_o=500mA, C_i=0.33\mu F, C_o=0.1\mu F, 0^\circ C \leq T_j \leq +125^\circ C$ unless otherwise specified)**

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	V_o	4.80	5.0	5.20	V	$T_j=+25^\circ C$
		4.75	5.0	5.25	V	$7.5V \leq V_i \leq 20V, I_o=10mA \sim 1A, P_D \leq 15W$
Line regulation	ΔV_o		3	100	mV	$7.5V \leq V_i \leq 25V, T_j=+25^\circ C$
			1	50	mV	$8V \leq V_i \leq 12V, T_j=+25^\circ C$
Load Regulation	ΔV_o		15	100	mV	$I_o=10mA \sim 1.0A, T_j=+25^\circ C$
			5	50	mV	$I_o=250mA \sim 750mA, T_j=+25^\circ C$
Quiescent Current	I_q		4.2	8	mA	$I_o=0, T_j=+25^\circ C$
Quiescent Current Change	ΔI_q			1.3	mA	$7.5V \leq V_i \leq 25V, 0^\circ C \leq T_j \leq +125^\circ C$
				0.5	mA	$10mA \leq I_o \leq 1.0A, -0^\circ C \leq T_j \leq +125^\circ C$
Output Noise Voltage	V_N		40		μV	$10Hz \leq f \leq 100kHz, T_j=+25^\circ C$
Ripple Rejection	RR	62	78		dB	$8V \leq V_i \leq 18V, f=120Hz$
Dropout Voltage	V_d		2		V	$I_o=1.0A, T_j=+25^\circ C$
Output Resistance	R_o		17		$m\Omega$	$f=1kHz$
Short Circuit Current	I_{sc}		750		mA	$T_j=+25^\circ C$
Peak Current	I_{pk}		2.2		A	$T_j=+25^\circ C$
Average Temperature Coefficient of Output Voltage	$\Delta V_o/\Delta T_j$		-0.6		$mV/^\circ C$	$I_o=10mA, 0^\circ C \leq T_j \leq +125^\circ C$

Note: Load and line regulation are specified at 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.

**ELECTRICAL CHARACTERISTICS OF 7806 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE
($V_i=11V, I_o=500mA, C_i=0.33\mu F, C_o=0.1\mu F, 0^\circ C \leq T_j \leq +125^\circ C$ unless otherwise specified)**

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	V_o	5.75	6.0	6.25	V	$T_j=+25^\circ C$
		5.7	6.0	6.3	V	$8.5V \leq V_i \leq 21V, I_o=10mA \sim 1A, P_D \leq 15W$
Line regulation	ΔV_o		5	120	mV	$8V \leq V_i \leq 25V, I_o=500mA, T_j=+25^\circ C$
			1.5	60	mV	$9V \leq V_i \leq 13V, I_o=500mA, T_j=+25^\circ C$
Load Regulation	ΔV_o		14	120	mV	$I_o=10mA \sim 1.0A, T_j=+25^\circ C$
			4	60	mV	$I_o=250mA \sim 750mA, T_j=+25^\circ C$
Quiescent Current	I_q		4.3	8	mA	$I_o=0, T_j=+25^\circ C$
Quiescent Current Change	ΔI_q			1.3	mA	$8.5V \leq V_i \leq 25V, -25^\circ C \leq T_j \leq +125^\circ C$
				0.5	mA	$10mA \leq I_o \leq 1A, -25^\circ C \leq T_j \leq +125^\circ C$
Output Noise Voltage	V_N		45		μV	$10Hz \leq f \leq 100kHz, T_j=+25^\circ C$
Ripple Rejection	RR	59	75		dB	$9V \leq V_i \leq 19V, f=120Hz$
Dropout Voltage	V_d		2		V	$I_o=1.0A, T_j=+25^\circ C$
Output Resistance	R_o		19		$m\Omega$	$f=1kHz$
Short Circuit Current	I_{sc}		550		mA	$T_j=+25^\circ C$
Peak Current	I_{pk}		2.2		A	$T_j=+25^\circ C$
Average Temperature Coefficient of Output Voltage	$\Delta V_o/\Delta T_j$		-0.7		$mV/^\circ C$	$I_o=10mA, 0^\circ C \leq T_j \leq +125^\circ C$

Note: Load and line regulation are specified at 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.

PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

ELECTRICAL CHARACTERISTICS OF 7808 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE (Vi=14V,Io=500mA,Ci=0.33uF,,Co=0.1uF, 0°C≤Tj≤+125°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	Vo	7.7	8.0	8.3	V	Tj=+25°C
		7.6	8.0	8.4	V	10.5V≤Vi≤23V,Io=10mA~1A,Pd≤15W
Line regulation	ΔVo		6	160	mV	10.5V≤Vi≤25V,Io=500mA,Tj=+25°C
			2	80	mV	11V≤Vi≤17V,Io=500mA,Tj=+25°C
Load Regulation	ΔVo		12	160	mV	Io=10mA~1A,Tj=+25°C
			4	80	mV	Io=250mA~750mA,Tj=+25°C
Quiescent Current	Iq		4.3	8	mA	Io=0,Tj=+25°C
Quiescent Current Change	ΔIq			1	mA	10.5V≤Vi≤25V,0°C≤Tj≤+125°C
				0.5	mA	10mA≤Io≤1A,0°C≤Tj≤+125°C
Output Noise Voltage	Vn		52		μV	10Hz≤f≤100kHz,Tj=+25°C
Ripple Rejection	RR	56	72		dB	11V≤Vi≤21V,f=120Hz
Dropout Voltage	Vd		2		V	Io=1A,Tj=+25°C
Output Resistance	Ro		16		mΩ	f=1kHz
Short Circuit Current	Is		450		mA	Tj=+25°C
Peak Current	Ip		2.2		A	Tj=+25°C
Average Temperature Coefficient of Output Voltage	ΔVo/ΔTj		-0.8		mV/°C	Io=10mA,0°C≤Tj≤+125°C

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

ELECTRICAL CHARACTERISTICS OF 7809 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE (Vi=15V,Io=500mA,Ci=0.33uF,,Co=0.1uF, 0°C≤Tj≤+125°C unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	Vo	8.65	9.0	9.35	V	Tj=+25°C
		8.55	9.0	9.45	V	11.5V≤Vi≤23V,Io=10mA~1A,Pd≤15W
Line regulation	ΔVo		6	180	mV	11.5V≤Vi≤26V,Tj=+25°C
			2	90	mV	12V≤Vi≤17V,Tj=+25°C
Load Regulation	ΔVo		12	180	mV	Io=10mA~1A,Tj=+25°C
			4	90	mV	Io=250mA~750mA,Tj=+25°C
Quiescent Current	Iq		4.3	8	mA	Io=0,Tj=+25°C
Quiescent Current Change	ΔIq			1	mA	11.5V≤Vi≤26V,0°C≤Tj≤+125°C
				0.5	mA	10mA≤Io≤1A,0°C≤Tj≤+125°C
Output Noise Voltage	Vn		52		μV	10Hz≤f≤100kHz,Tj=+25°C
Ripple Rejection	RR	55	72		dB	12V≤Vi≤22V,f=120Hz
Dropout Voltage	Vd		2		V	Io=1.0A,Tj=+25°C
Output Resistance	Ro		16		mΩ	f=1kHz
Short Circuit Current	Is		450		mA	Tj=+25°C
Peak Current	Ip		2.2		A	Tj=+25°C
Average Temperature Coefficient of Output Voltage	ΔVo/ΔTj		-1		mV/°C	Io=10mA,0°C≤Tj≤+125°C

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

PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

**ELECTRICAL CHARACTERISTICS OF 7810 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE
(Vi=16V,Io=500mA,Ci=0.33uF,,Co=0.1uF, 0°C≤Tj≤+125°C unless otherwise specified)**

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	Vo	9.6	10	10.4	V	Tj=+25°C
		9.5	10	10.5	V	12.5V≤Vi≤25V,Io=10mA~1A,Pd≤15W
Line regulation	ΔVo		7	200	mV	12.5V≤Vi≤28V,Tj=+25°C
			2	100	mV	13V≤Vi≤17V,Tj=+25°C
Load Regulation	ΔVo		12	200	mV	Io=10mA~1A,Tj=+25°C
			4	100	mV	Io=250mA~750mA,Tj=+25°C
Quiescent Current	Iq		4.3	8	mA	Io=0,Tj=+25°C
Quiescent Current Change	ΔIq			1	mA	12.5V≤Vi≤28V,0°C≤Tj≤+125°C
				0.5	mA	10mA≤Io≤1A,0°C≤Tj≤+125°C
Output Noise Voltage	Vn		70		μV	10Hz≤f≤100kHz,Tj=+25°C
Ripple Rejection	RR	55	71		dB	13V≤Vi≤23V,f=120Hz
Dropout Voltage	Vd		2		V	Io=1.0A,Tj=+25°C
Output Resistance	Ro		18		mΩ	f=1kHz
Short Circuit Current	Is		400		mA	Tj=+25°C
Peak Current	Ipk		2.2		A	Tj=+25°C
Average Temperature Coefficient of Output Voltage	ΔVo/ΔTj		-1		mV/°C	Io=10mA,0°C≤Tj≤+125°C

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

**ELECTRICAL CHARACTERISTICS OF 7812 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE
(Vi=19V,Io=500mA,Ci=0.33uF,,Co=0.1uF, 0°C≤Tj≤+125°C unless otherwise specified)**

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	Vo	11.53	12	12.48	V	Tj=+25°C
		11.42	12	12.60	V	14.5V≤Vi≤27V,Io=10mA~1A,Pd≤15W
Line regulation	ΔVo		10	240	mV	14.5V≤Vi≤30V,Tj=+25°C
			3	120	mV	15V≤Vi≤19V,Tj=+25°C
Load Regulation	ΔVo		12	240	mV	Io=10mA~1A,Tj=+25°C
			4	120	mV	Io=250mA~750mA,Tj=+25°C
Quiescent Current	Iq		4.3	8	mA	Io=1.0A,Tj=+25°C
Quiescent Current Change	ΔIq			1	mA	14.5V≤Vi≤30V
				0.5	mA	10mA≤Io≤1A
Output Noise Voltage	Vn		75		μV	10Hz≤f≤100kHz,Tj=+25°C
Ripple Rejection	RR	55	71		dB	15V≤Vi≤25V,f=120Hz
Dropout Voltage	Vd		2		V	Io=1.0A,Tj=+25°C
Output Resistance	Ro		18		mΩ	f=1kHz
Short Circuit Current	Is		350		mA	Tj=+25°C
Peak Current	Ipk		2.2		A	Tj=+25°C
Average Temperature Coefficient of Output Voltage	ΔVo/ΔTj		-1		mV/°C	Io=10mA,0°C≤Tj≤+125°C

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

PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

ELECTRICAL CHARACTERISTICS OF 7815 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=23V, I_o=500mA, C_i=0.33\mu F, C_o=0.1\mu F, 0^\circ C \leq T_j \leq +125^\circ C$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	V_o	14.4	15	15.6	V	$T_j=+25^\circ C$
		14.25	15	15.75	V	$17.5 \leq V_i \leq 30V, I_o=10mA \sim 1A, P_D \leq 15W$
Line regulation	ΔV_o		12	300	mV	$17.5 \leq V_i \leq 30V, T_j=+25^\circ C$
			3	150	mV	$18V \leq V_i \leq 22V, T_j=+25^\circ C$
Load Regulation	ΔV_o		12	300	mV	$I_o=10mA \sim 1A, T_j=+25^\circ C$
			4	150	mV	$I_o=250mA \sim 750mA, T_j=+25^\circ C$
Quiescent Current	I_q		4.3	8	mA	$I_o=0, T_j=+25^\circ C$
Quiescent Current Change	ΔI_q			1	mA	$17.5V \leq V_i \leq 30V$
				0.5	mA	$10mA \leq I_o \leq 1A,$
Output Noise Voltage	V_N		90		µV	$10Hz \leq f \leq 100kHz, T_j=+25^\circ C$
Ripple Rejection	RR	54	70		dB	$18V \leq V_i \leq 28V, f=120Hz$
Dropout Voltage	V_d		2		V	$I_o=1.0A, T_j=+25^\circ C$
Output Resistance	R_o		19		mΩ	$f=1kHz$
Short Circuit Current	I_{SC}		230		mA	$T_j=+25^\circ C$
Peak Current	I_{PK}		2.2		A	$T_j=+25^\circ C$
Average Temperature Coefficient of Output Voltage	$\Delta V_o/\Delta T_j$		-1		mV/°C	$I_o=10mA, 0^\circ C \leq T_j \leq +125^\circ C$

Note: Load and line regulation are specified at 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.

ELECTRICAL CHARACTERISTICS OF 7818 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE ($V_i=26V, I_o=500mA, C_i=0.33\mu F, C_o=0.1\mu F, 0^\circ C \leq T_j \leq +125^\circ C$ unless otherwise specified)

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	V_o	17.30	18	18.72	V	$T_j=+25^\circ C$
		17.14	18	18.90	V	$21V \leq V_i \leq 33V, I_o=10mA \sim 1A, P_D \leq 15W$
Line regulation	ΔV_o		15	360	mV	$21V \leq V_i \leq 33V, T_j=+25^\circ C$
			5	180	mV	$22V \leq V_i \leq 26V, T_j=+25^\circ C$
Load Regulation	ΔV_o		12	360	mV	$I_o=10mA \sim 1A, T_j=+25^\circ C$
			4	180	mV	$I_o=250mA \sim 750mA, T_j=+25^\circ C$
Quiescent Current	I_q		4.5	8	mA	$I_o=0mA, T_j=+25^\circ C$
Quiescent Current Change	ΔI_q			1	mA	$21V \leq V_i \leq 33V$
				0.5	mA	$5mA \leq I_o \leq 350mA$
Output Noise Voltage	V_N		110		µV	$10Hz \leq f \leq 100kHz, T_j=+25^\circ C$
Ripple Rejection	RR	54	70		dB	$21V \leq V_i \leq 31V, f=120Hz$
Dropout Voltage	V_d		2		V	$T_j=+25^\circ C, I_o=500mA$
Output Resistance	R_o		22		mΩ	$f=1kHz$
Short Circuit Current	I_{SC}		200		mA	$T_j=+25^\circ C$
Peak Current	I_{PK}		2.2		A	$T_j=+25^\circ C$
Average Temperature Coefficient of Output Voltage	$\Delta V_o/\Delta T_j$		-1		mV/°C	$I_o=10mA, 0^\circ C \leq T_j \leq +125^\circ C$

Note: Load and line regulation are specified at 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.

PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

**ELECTRICAL CHARACTERISTICS OF 7820 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE
($V_i=29V$, $I_o=500mA$, $C_i=0.33\mu F$, $C_o=0.1\mu F$, $0^\circ C \leq T_j \leq +125^\circ C$ unless otherwise specified)**

Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	V_o	19.2	20	20.8	V	$T_j=+25^\circ C$
		19	20	21	V	$24V \leq V_i \leq 35V, I_o=10mA \sim 1A, P_D \leq 15W$
Line regulation	ΔV_o		15	400	mV	$23V \leq V_i \leq 35V, T_j=+25^\circ C$
			5	200	mV	$26V \leq V_i \leq 32V, T_j=+25^\circ C$
Load Regulation	ΔV_o		12	400	mV	$I_o=10mA \sim 1A, T_j=+25^\circ C$
			4	200	mV	$I_o=250mA \sim 750mA, T_j=+25^\circ C$
Quiescent Current	I_q		4.1	8	mA	$T_j=+25^\circ C$
Quiescent Current Change	ΔI_q			1	mA	$23V \leq V_i \leq 35V, T_j=+25^\circ C$
				0.5	mA	$10mA \leq I_o \leq 1A, T_j=+25^\circ C$
Output Noise Voltage	V_N		110		µV	$10Hz \leq f \leq 100kHz, T_j=+25^\circ C$
Ripple Rejection	RR	54	70		dB	$24V \leq V_i \leq 34V, f=120Hz$
Dropout Voltage	V_d		2		V	$T_j=+25^\circ C, I_o=1.0A$
Output Resistance	R_o		22		mΩ	$f=1kHz$
Short Circuit Current	I_{SC}		180		mA	$T_j=+25^\circ C$
Peak Current	I_{PK}		2.2		A	$T_j=+25^\circ C$
Average Temperature Coefficient of Output Voltage	$\Delta V_o/\Delta T_j$		-1.2		mV/°C	$I_o=10mA, 0^\circ C \leq T_j \leq +125^\circ C$

Note: Load and line regulation are specified at 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.

**ELECTRICAL CHARACTERISTICS OF 7824 AT SPECIFIED VIRTUAL JUNCTION TEMPERATURE
($V_i=33V$, $I_o=500mA$, $C_i=0.33\mu F$, $C_o=0.1\mu F$, $0^\circ C \leq T_j \leq +125^\circ C$ unless otherwise specified)**

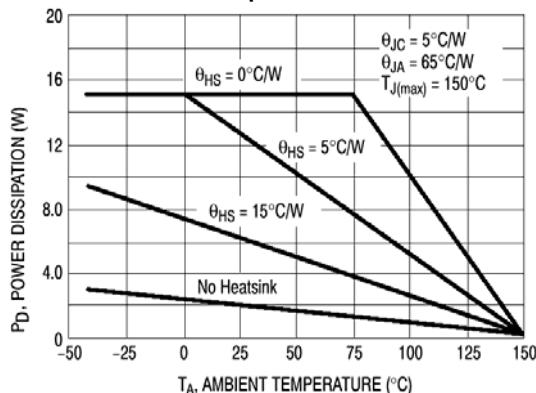
Parameter	Symbol	Min	Typ	Max	Unit	Conditions
Output voltage	V_o	23.07	24	24.96	V	$V_i=33V, I_o=350mA, T_j=+25^\circ C$
		22.85	24	25.20	V	$27V \leq V_i \leq 38V, I_o=10mA \sim 1A, P_D \leq 15W$
Line regulation	ΔV_o		18	480	mV	$27V \leq V_i \leq 38V, T_j=+25^\circ C$
			6	240	mV	$28V \leq V_i \leq 32V, T_j=+25^\circ C$
Load Regulation	ΔV_o		12	480	mV	$I_o=10mA \sim 1A, T_j=+25^\circ C$
			4	240	mV	$I_o=250mA \sim 750mA, T_j=+25^\circ C$
Quiescent Current	I_q		4.2	8	mA	$I_o=0mA, T_j=+25^\circ C$
Quiescent Current Change	ΔI_q			1	mA	$27V \leq V_i \leq 38V$
				0.5	mA	$10mA \leq I_o \leq 1.0A$
Output Noise Voltage	V_N		170		µV	$10Hz \leq f \leq 100kHz, T_j=+25^\circ C$
Ripple Rejection	RR	54	70		dB	$27V \leq V_i \leq 37V, f=120Hz$
Dropout Voltage	V_d		2		V	$T_j=+25^\circ C, I_o=1.0mA$
Output Resistance	R_o		28		mΩ	$f=1kHz$
Short Circuit Current	I_{SC}		150		mA	$T_j=+25^\circ C$
Peak Current	I_{PK}		2.2		A	$T_j=+25^\circ C$
Average Temperature Coefficient of Output Voltage	$\Delta V_o/\Delta T_j$		-1.5		mV/°C	$I_o=10mA, 0^\circ C \leq T_j \leq +125^\circ C$

Note: Load and line regulation are specified at 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.

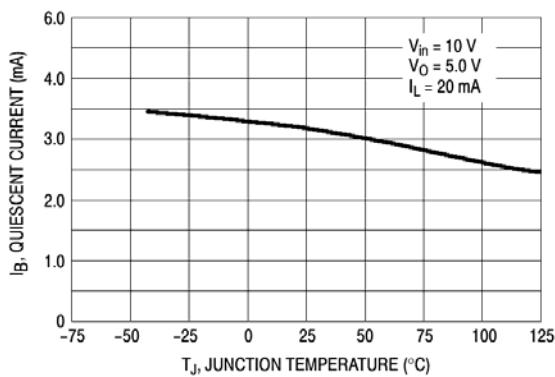
PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

Typical Characteristics

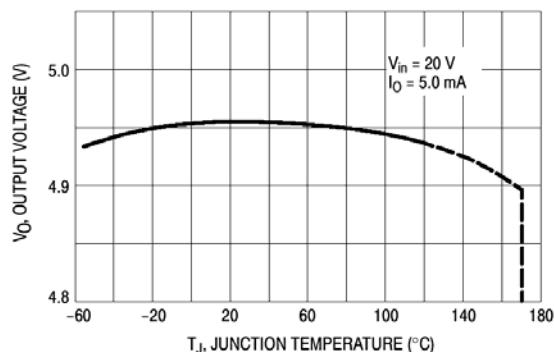
**FIGURE 1 - Worst Case Power Dissipation v.s.
Ambient Temperature**



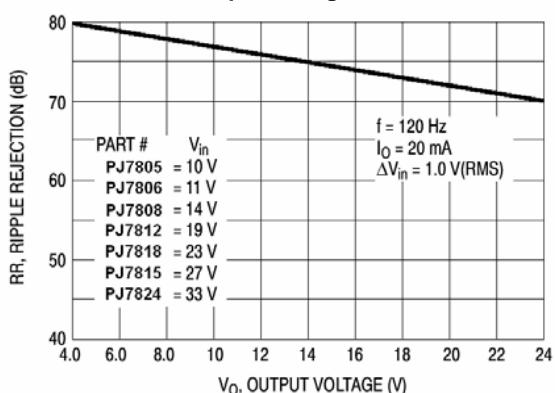
**FIGURE 3 – Quiescent Current v.s.
Junction Temperature**



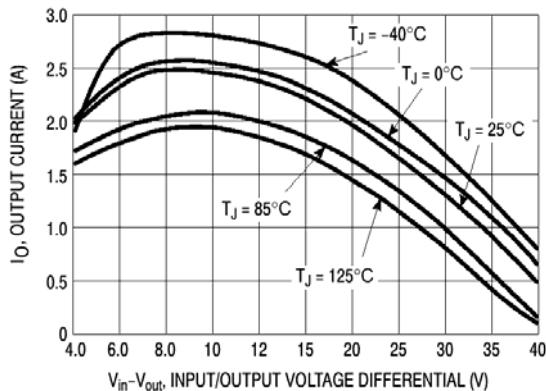
**FIGURE 5 – Output Voltage v.s.
Junction Temperature**



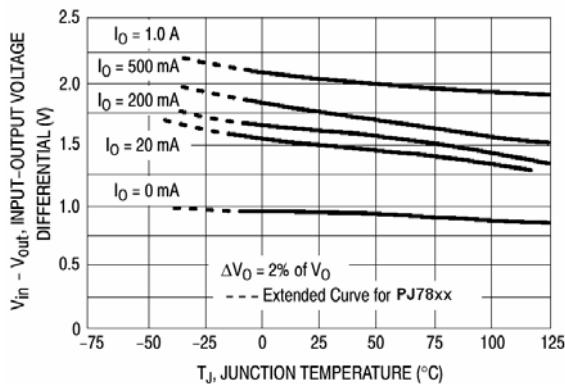
**FIGURE 7 – Ripple Rejection v.s.
Output Voltage**



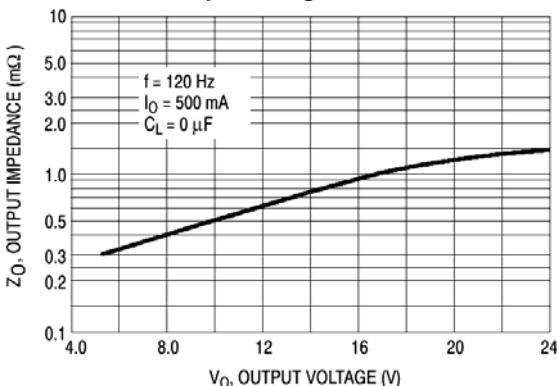
**FIGURE 2 - Peak Output Current v.s.
Input-Output Differential Voltage**



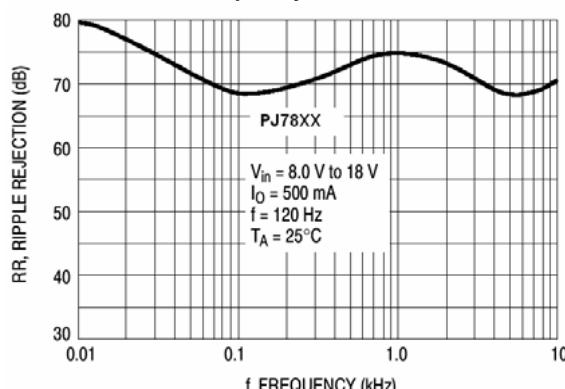
**FIGURE 4 – Input Output Differential v.s.
Junction Temperature**



**FIGURE 6 – Output Impedance v.s.
Output Voltage**

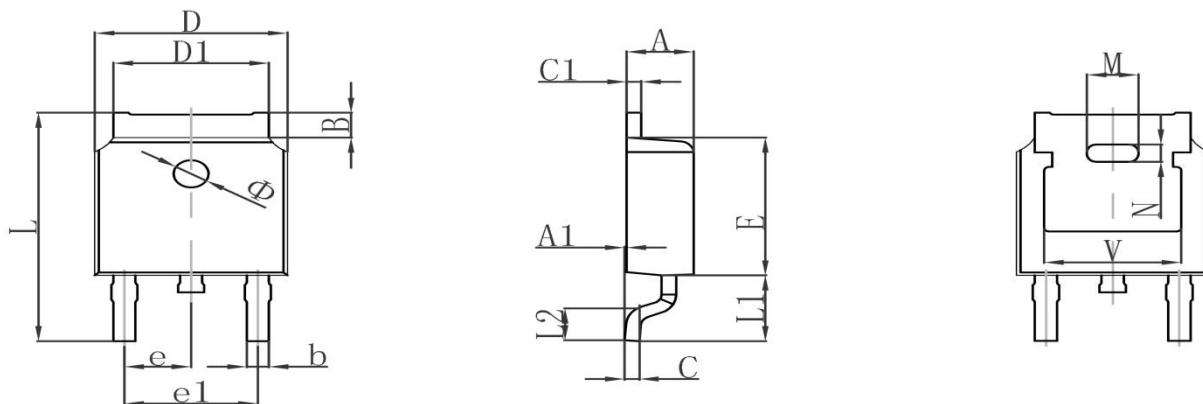


**FIGURE 8 – Ripple Rejection v.s.
Frequency**



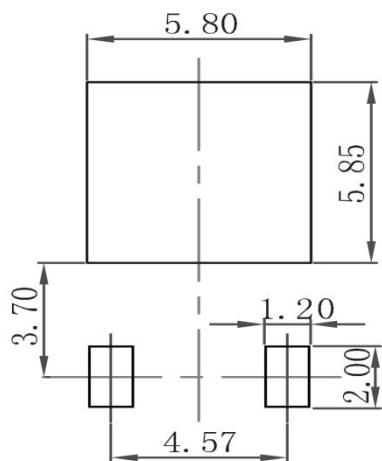
PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

TO-252 Package Outline Dimensions



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	2.200	2.380	0.087	0.094
A1	0.000	0.100	0.000	0.004
B	0.800	1.400	0.031	0.055
b	0.710	0.810	0.028	0.032
c	0.460	0.560	0.018	0.022
c1	0.460	0.560	0.018	0.022
D	6.500	6.700	0.256	0.264
D1	5.130	5.460	0.202	0.215
E	6.000	6.200	0.236	0.244
e	2.286TYP		0.090TYP	
e1	4.327	4.727	0.170	0.186
M	1.778REF		0.070REF	
N	0.762REF		0.018REF	
L	9.800	10.400	0.386	0.409
L1	2.9REF		0.114REF	
L2	1.400	1.700	0.055	0.067
V	4.830REF		0.190REF	
Φ	1.100	1.300	0.043	0.051

TO-252 Suggested Pad Layout



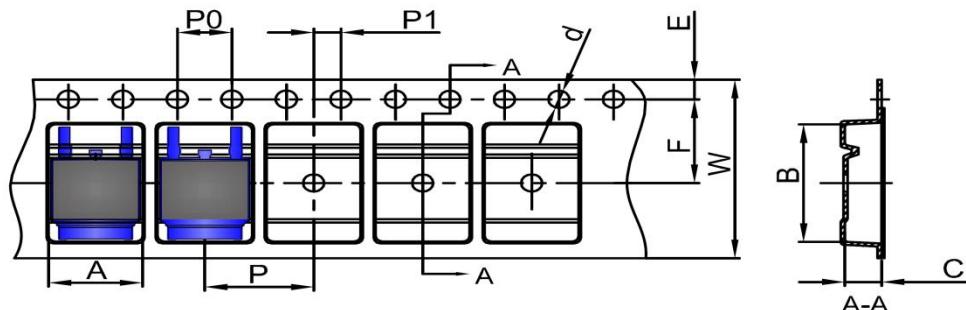
Note:

1. Controlling dimension: in millimeters
2. General tolerance: $\pm 0.05\text{mm}$
3. The pad layout is for reference purposes only

PLASTIC-ENCAPSULATE VOLTAGE REGULATORS

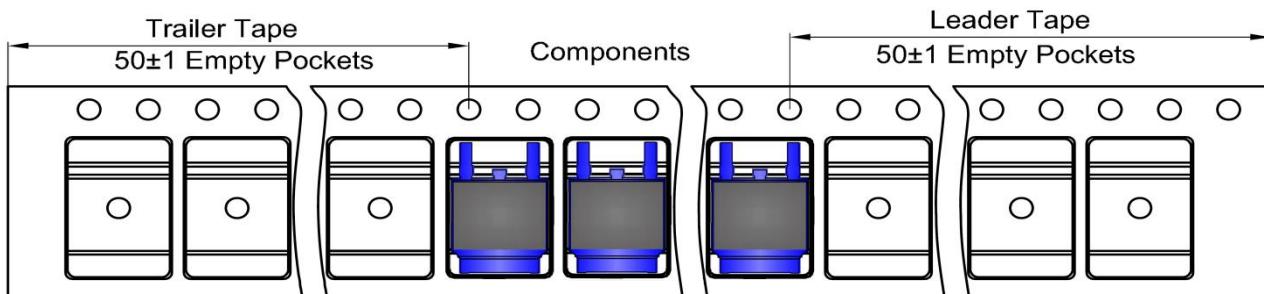
TO-252 Tape and Reel

TO-252 Embossed Carrier Tape

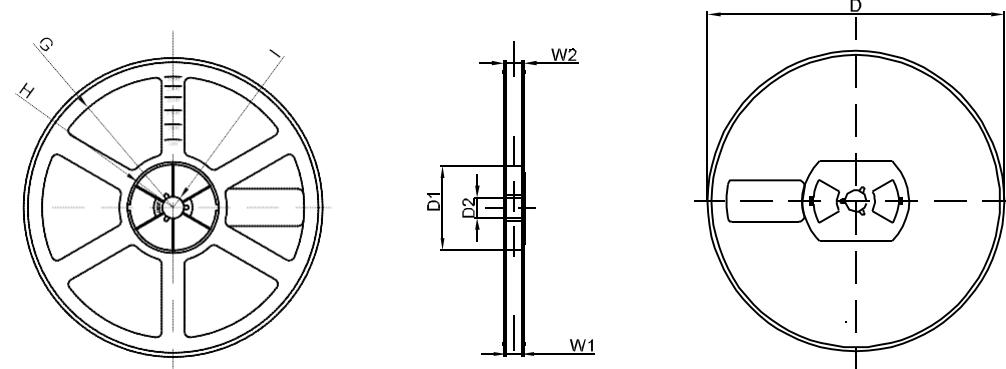


TYPE	DIMENSIONS ARE IN MILLIMETER									
	A	B	C	d	E	F	P0	P	P1	W
TO-252	6.90	10.50	2.70	Ø1.55	1.75	7.50	4.00	8.00	2.00	16.00
TOLERANCE	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1	±0.1

TO-252 Tape Leader and Trailer



TO-252 Reel



REEL OPTION	DIMENSIONS ARE IN MILLIMETER							
	D	D1	D2	G	H	I	W1	W2
13" DIA	Ø330.00	100.00	Φ21.00	R151.00	R56.00	R6.50	16.40	21.00
TOLERANCE	±2	±1	±1	±1	±1	±1	±1	±1

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