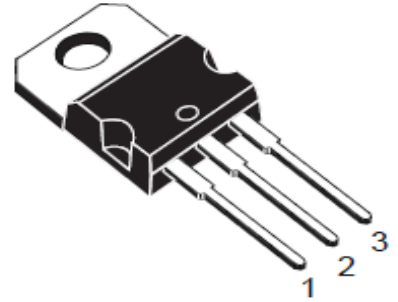


● Part No.: YZPST-7912CV

● Package: TO-220

● NPN



● Absolute Maximum Ratings $T_c=25^{\circ}\text{C}$

Symbol	Parameter	Value	UNIT
V_I	Input Voltage	-35	V
TOPR	Operating Temperature Range	0 ~ +125	$^{\circ}\text{C}$
TSTG	Storage Temperature Range	-65 ~ +150	$^{\circ}\text{C}$

TO-220

● Electrical Characteristics $T_c=25^{\circ}\text{C}$

($V_I = -19\text{V}$, $I_O = 500\text{mA}$, $0^{\circ}\text{C} \leq T_J \leq +125^{\circ}\text{C}$, $C_I = 2.2\mu\text{F}$, $C_O = 1\mu\text{F}$, unless otherwise specified.)

Parameter	Symbol	Test Condition	MIN	TYP	MAX	UNIT
Output Voltage	V_O	$T_J = +25^{\circ}\text{C}$	-11.5	-12	-12.5	V
		$I_O = 5\text{mA to } 1\text{A}$, $P_O \leq 15\text{W}$ $V_I = -15.5\text{V to } -27\text{V}$	-11.4	-12	-12.6	
Line Regulation (Note1)	ΔV_O	$T_J = +25^{\circ}\text{C}$		12	240	mV
		$V_I = -14.5\text{V to } -30\text{V}$ $V_I = -16\text{V to } -22\text{V}$		6	120	
Load Regulation (Note1)	ΔV_O	$T_J = +25^{\circ}\text{C}$ $I_O = 5\text{mA to } 1.5\text{A}$		12	240	mV
		$T_J = +25^{\circ}\text{C}$ $I_O = 250\text{mA to } 750\text{mA}$		4	120	
Quiescent Current	I_Q	$T_J = +25^{\circ}\text{C}$		3	6	mA
Quiescent Current Change	ΔI_Q	$I_O = 5\text{mA to } 1\text{A}$		0.05	0.5	mA
		$V_I = -14.5\text{V to } -30\text{V}$		0.1	1	
Quiescent Current Change	$\Delta V_O / \Delta T$	$I_O = 5\text{mA}$		-0.8		mV/ $^{\circ}\text{C}$
Short Circuit Current	ISC	$T_J = +25^{\circ}\text{C}$, $V_I = -35\text{V}$		300		mA

Typical Characteristics

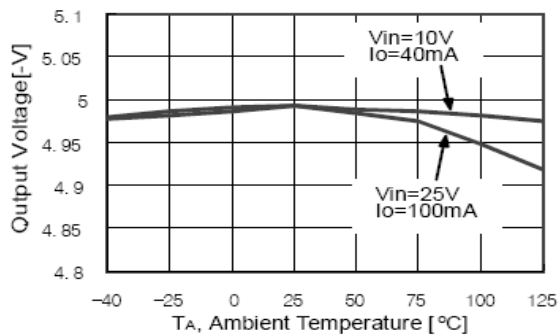


Figure 1. Output Voltage

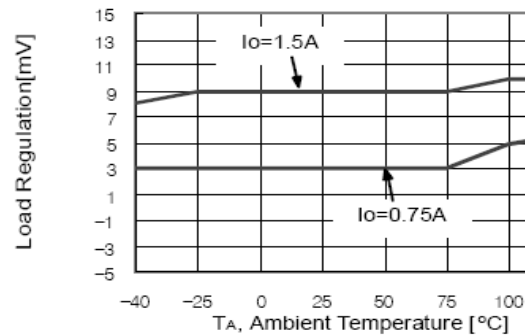


Figure 2. Load Regulation

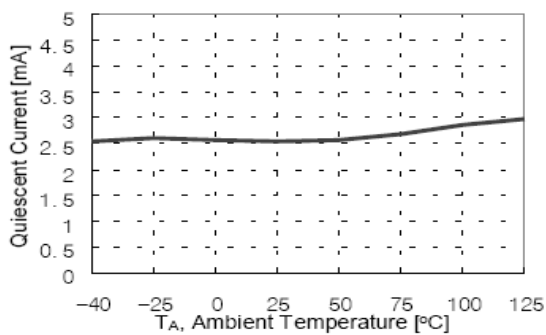


Figure 3. Quiescent Current

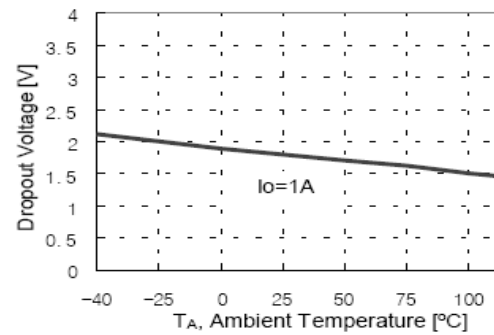


Figure 4. Dropout Voltage

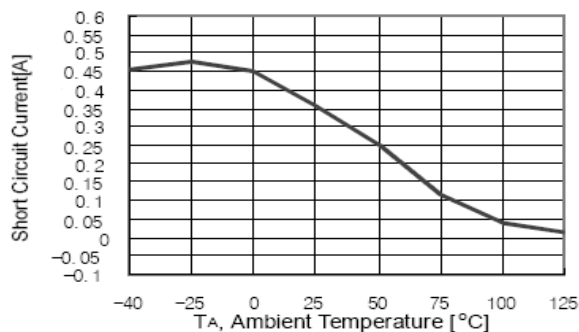
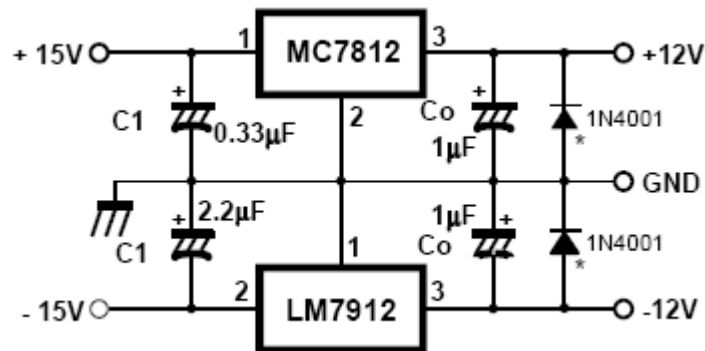


Figure 5. Short Circuit Current

Typical Applications



Split power supply (± 12V/1A)

Package Dimensions

TO-220 MECHANICAL DATA

DIM.	mm			inch		
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.
A	4.40		4.60	0.173		0.181
C	1.23		1.32	0.048		0.051
D	2.40		2.72	0.094		0.107
D1		1.27			0.050	
E	0.49		0.70	0.019		0.027
F	0.61		0.88	0.024		0.034
F1	1.14		1.70	0.044		0.067
F2	1.14		1.70	0.044		0.067
G	4.95		5.15	0.194		0.203
G1	2.4		2.7	0.094		0.106
H2	10.0		10.40	0.393		0.409
L2		16.4			0.645	
L4	13.0		14.0	0.511		0.551
L5	2.65		2.95	0.104		0.116
L6	15.25		15.75	0.600		0.620
L7	6.2		6.6	0.244		0.260
L9	3.5		3.93	0.137		0.154
DIA.	3.75		3.85	0.147		0.151

