

**DESCRIPTION**

The μA7900 series of monolithic Three-Terminal Negative Voltage Regulators employs internal current limiting, thermal shut-down and safe-area compensation, making them essentially indestructible. If adequate heat sinking is provided, they can deliver over 1A output current. They are intended as fixed-voltage complements to the μA7800 positive regulators.

**FEATURES**

- Output current in excess of 1 amp
- No external components
- Internal thermal overload protection
- Internal short circuit current limiting
- Output transistor safe-area compensation
- Available in the TO-220 and the TO-3 packages
- Output voltages of -5, -5.2, -6, -8, -12, -15, -18 and -24 volts
- MII std 883A,B,C available

**ABSOLUTE MAXIMUM RATINGS**

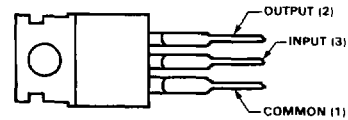
PARAMETER		RATING	UNIT
V <sub>IN</sub>	Input voltage		V
	-5V through -18V -24V	-35 -40	
	Internal power dissipation <sup>1</sup>	Internally limited	
T <sub>stg</sub>	Storage temperature range	-65 to +150	°C
T <sub>J</sub>	Operating junction temperature range <sup>2</sup>		°C
	7900 7900C	-55 to +150 0 to +125	
	Lead temperature		°C
	TO-3 package (soldering, 60 second time limit)	300	
	TO-220 package (soldering, 10 second time limit)	230	

**NOTES**

- 1 Thermal resistance of the packages (without a heat sink)  
Junction to case: TO-3 Package 4°C/W; TO-220 Package 2°C/W  
Junction to ambient: TO-3 Package 35°C/W; TO-220 Package 50°C/W
2. Operating Ambient Temperature Range  
7900 -55°C to +125°C  
7900C 0°C to +85°C

**PIN CONFIGURATION**

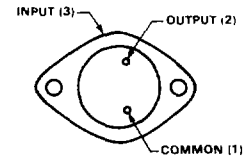
**U PACKAGE (TO-220)**



**ORDER INFORMATION**

Output voltage	Order part no.
-5V	7905CU
-5.2V	7905.2CU
-6V	7906CU
-8V	7908CU
-12V	7912CU
-15V	7915CU
-18V	7918CU
-24V	7924CU

**DA PACKAGE (TO-3)**



**ORDER INFORMATION**

Output voltage	Order part no.
-5V	7905DA
-5.2V	7905.2DA
-6V	7906DA
-8V	7908DA
-12V	7912DA
-15V	7915DA
-18V	7918DA
-24V	7924DA
-5V	7905CDA
-5.2V	7905.2CDA
-6V	7906CDA
-8V	7908CDA
-12V	7912CDA
-15V	7915CDA
-18V	7918CDA
-24V	7924CDA

DC ELECTRICAL CHARACTERISTICS

$I_{OUT} = 500\text{mA}$ ,  $-55^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$ ,<sup>1</sup>  
 $C_{IN} = 2\mu\text{F}$ ,  $C_{OUT} = 1\mu\text{F}$  unless otherwise specified.

PARAMETER	TEST CONDITIONS	7905			7095C			7905.2			UNIT
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
$V_{OUT}$	$T_J = 25^{\circ}\text{C}$  $P \leq 15\text{W}$ $5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$	$V_{IN} = -10\text{V}$			$V_{IN} = -10\text{V}$			$V_{IN} = -10\text{V}$			V
		-4.8	-5.0	-5.2	-4.8	-5.0	-5.2	-5.0	-5.2	-5.4	
		$-8\text{V} \leq V_{IN} \leq -20\text{V}$			$-7\text{V} \leq V_{IN} \leq -20\text{V}$			$-8\text{V} \leq V_{IN} \leq -20\text{V}$			
		-4.7		-5.3	-4.75		-5.25	-5.0		-5.4	
Line regulation	$T_J = 25^{\circ}\text{C}$	$-7\text{V} \leq V_{IN} \leq -25\text{V}$			$-7\text{V} \leq V_{IN} \leq -25\text{V}$			$-7.2\text{V} \leq V_{IN} \leq -25\text{V}$			mV
			3	50		3	100		3	52	
		$-8\text{V} \leq V_{IN} \leq -12\text{V}$			$-8\text{V} \leq V_{IN} \leq -12\text{V}$			$-8\text{V} \leq V_{IN} \leq -12\text{V}$			
			1	25		1	50		1	27	
Load regulation	$T_J = 25^{\circ}\text{C}$  $5\text{mA} \leq I_{OUT} \leq 1.5\text{A}$ $250\text{mA} \leq I_{OUT} \leq 750\text{mA}$		15	50		15	100		15	52	mV
			5	25		5	50		5	27	
$I_{CC}$ with line	$T_J = 25^{\circ}\text{C}$		1	2		1	2		1	2	mA
		$-8\text{V} \leq V_{IN} \leq -25\text{V}$			$-7\text{V} \leq V_{IN} \leq -25\text{V}$			$-8\text{V} \leq V_{IN} \leq -25\text{V}$			
				1.3			1.3			1.3	
with load	$5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$		.1	0.5		.1	0.5		.1	0.5	
Output noise voltage	$T_A = 25^{\circ}\text{C}$ $10\text{Hz} \leq f \leq 100\text{kHz}$		125			125			130		μV
Long term stability			20			20			22		mV
Ripple rejection	$f = 120\text{Hz}$ $I_{OUT} = 20\text{mA}$	$-8\text{V} \leq V_{IN} \leq -18\text{V}$			$-8\text{V} \leq V_{IN} \leq -18\text{V}$			$-8\text{V} \leq V_{IN} \leq -18\text{V}$			dB
		54	60		54	60		54	60		
Dropout voltage	$T_J = 25^{\circ}\text{C}$ $I_{OUT} = 1.0\text{A}$		1.1			1.1			1.1		V
Output resistance	$f = 1\text{kHz}$		17			17			17		mΩ
$I_{OS}$	$T_J = 25^{\circ}\text{C}$		500			500			500		mA
Peak output current	$T_J = 25^{\circ}\text{C}$		2.1			2.1			2.1		A
Average temperature coefficient of input voltage	$I_{OUT} = 5\text{mA}$	$0^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$			$0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$			$0^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$			mV/°C
			-4			-4			-4		

NOTE

1. 7900C -  $0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$

**DC ELECTRICAL CHARACTERISTICS** (Cont'd)  $I_{OUT} = 500\text{mA}$ ,  $-55^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$ ,<sup>1</sup>  
 $C_{IN} = 2\mu\text{F}$ ,  $C_{OUT} = 1\mu\text{F}$  unless otherwise specified.

PARAMETER	TEST CONDITIONS	7905.2C			7906			7906C			UNIT
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
$V_{OUT}$	$T_J = 25^{\circ}\text{C}$  $P \leq 15\text{W}$ $5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$	$V_{IN} = -10\text{V}$ -5.0   -5.2   -5.4 $-7.2\text{V} \leq V_{IN} \leq -20\text{V}$ -4.94     -5.46			$V_{IN} = -11\text{V}$ -5.75   -6.0   -6.25 $-9\text{V} \leq V_{IN} \leq -21\text{V}$ -5.65     -6.35			$V_{IN} = -11\text{V}$ -5.75   -6.0   -6.25 $-8\text{V} \leq V_{IN} \leq -25\text{V}$ -5.7     -6.3			V
Line regulation	$T_J = 25^{\circ}\text{C}$	$-7.2\text{V} \leq V_{IN} \leq -25\text{V}$   3   105 $-8\text{V} \leq V_{IN} \leq -12\text{V}$   1   52			$-8\text{V} \leq V_{IN} \leq -25\text{V}$   5   60 $-9\text{V} \leq V_{IN} \leq -13\text{V}$   1.5   30			$-8\text{V} \leq V_{IN} \leq -25\text{V}$   5   120 $-9\text{V} \leq V_{IN} \leq -13\text{V}$   1.5   60			mV
Load regulation	$T_J = 25^{\circ}\text{C}$  $5\text{mA} \leq I_{OUT} \leq 1.5\text{A}$ $250\text{mA} \leq I_{OUT} \leq 750\text{mA}$	15   105   5   52			14   60   4   30			14   120   4   60			mV
$I_{CC}$ with line  with load	$T_J = 25^{\circ}\text{C}$   $5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$	1   2 $-7.2\text{V} \leq V_{IN} \leq -25\text{V}$   1.3     0.1   0.5			1   2 $-9\text{V} \leq V_{IN} \leq -25\text{V}$   1.3     0.1   0.5			1   2 $-8\text{V} \leq V_{IN} \leq -25\text{V}$   1.3     0.1   0.5			mA
Output noise voltage	$T_A = 25^{\circ}\text{C}$ $10\text{Hz} \leq f \leq 100\text{kHz}$	130			150			150			μV
Long term stability		22			24			24			mV
Ripple rejection	$f = 120\text{Hz}$ $I_{OUT} = 20\text{mA}$	$-8\text{V} \leq V_{IN} \leq -18\text{V}$ 54   60			$-9\text{V} \leq V_{IN} \leq -19\text{V}$ 54   60			$-9\text{V} \leq V_{IN} \leq -19\text{V}$ 54   60			dB
Dropout voltage	$T_J = 25^{\circ}\text{C}$ $I_{OUT} = 1.0\text{A}$	1.1			1.1			1.1			V
Output resistance	$f = 1\text{kHz}$	17			19			19			mΩ
$I_{OS}$	$T_J = 25^{\circ}\text{C}$	500			500			500			mA
Peak output current	$T_J = 25^{\circ}\text{C}$	2.1			2.1			2.1			A
Average temperature coefficient of input voltage	$I_{OUT} = 5\text{mA}$	$0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$   -0.4			$0^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$   -0.4			$0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$   -0.4			mV/°C

NOTE

1.  $7900 - 0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$

**DC ELECTRICAL CHARACTERISTICS** (Cont'd)  $I_{OUT} = 500\text{mA}$ ,  $-55^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$ ,<sup>1</sup>  
 $C_{IN} = 2\mu\text{F}$ ,  $C_{OUT} = 1\mu\text{F}$  unless otherwise specified.

PARAMETER	TEST CONDITIONS	7908			7908C			7912			UNIT
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
$V_{OUT}$	$T_J = 25^{\circ}\text{C}$  $P \leq 15\text{W}$ $5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$	$V_{IN} = -14\text{V}$ -7.7   -8.0   -8.3 $-11.5\text{V} \leq V_{IN} \leq -23\text{V}$ -7.6     -8.4			$V_{IN} = -14\text{V}$ -7.7   -8.0   -8.3 $-10.5\text{V} \leq V_{IN} \leq -23\text{V}$ -7.6     -8.4			$V_{IN} = -19\text{V}$ -11.5   -12.0   -12.5 $-15.5\text{V} \leq V_{IN} \leq -27\text{V}$ -11.4     -12.6			V
Line regulation	$T_J = 25^{\circ}\text{C}$	$-10.5\text{V} \leq V_{IN} \leq -25\text{V}$   6   80 $-11\text{V} \leq V_{IN} \leq -17\text{V}$   2   40			$-10.5\text{V} \leq V_{IN} \leq -25\text{V}$   6   160 $-11\text{V} \leq V_{IN} \leq -17\text{V}$   2   80			$-14.5\text{V} \leq V_{IN} \leq -30\text{V}$   10   120 $-16\text{V} \leq V_{IN} \leq -22\text{V}$   3   60			mV
Load regulation	$T_J = 25^{\circ}\text{C}$  $5\text{mA} \leq I_{OUT} \leq 1.5\text{A}$ $250\text{mA} \leq I_{OUT} \leq 750\text{mA}$		12 4	80 40		12 4	160 80		12 4	120 60	mV
$I_{CC}$ with line	$T_J = 25^{\circ}\text{C}$		1	2		1	2		1.5	3.0	mA
with load	$5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$		.1	1.0 0.5		.1	1.0 0.5		.1	0.5	
Output noise voltage	$T_A = 25^{\circ}\text{C}$ $10\text{Hz} \leq f \leq 100\text{kHz}$		200			200			300		μV
Long term stability			32			32			48		mV
Ripple rejection	$f = 120\text{Hz}$ $I_{OUT} = 20\text{mA}$	$-11.5\text{V} \leq V_{IN} \leq -21.5\text{V}$ 54   60			$-11.5\text{V} \leq V_{IN} \leq -21.5\text{V}$ 54   60			$-15\text{V} \leq V_{IN} \leq -25\text{V}$ 54   60			dB
Dropout voltage	$T_J = 25^{\circ}\text{C}$ $I_{OUT} = 1.0\text{A}$		1.1			1.1			1.1		V
Output resistance	$f = 1\text{kHz}$		16			16			18		mΩ
$I_{OS}$	$T_J = 25^{\circ}\text{C}$		500			500			500		mA
Peak output current	$T_J = 25^{\circ}\text{C}$		2.1			2.1			2.1		A
Average temperature coefficient of input voltage	$I_{OUT} = 5\text{mA}$	$0^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$   -0.6			$0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$   -0.6			$0^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$   -0.8			mV/°C

NOTE

1 7900C -  $0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$

μA7905/05.2/06/08/12/15/18/24-U,DA

**DC ELECTRICAL CHARACTERISTICS** (Cont'd)  $I_{OUT} = 500\text{mA}$ ,  $-55^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$ ,<sup>1</sup>  
 $C_{IN} = 2\mu\text{F}$ ,  $C_{OUT} = 1\mu\text{F}$  unless otherwise specified.

PARAMETER	TEST CONDITIONS	7912C			7915			7915C			UNIT
		Min	Typ	Max	Min	Typ	Max	Min	Typ	Max	
$V_{OUT}$	$T_J = 25^{\circ}\text{C}$ $P \leq 15\text{W}$ $5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$	$V_{IN} = -19\text{V}$ -11.5 -12.0 -12.5 $-14.5\text{V} \leq V_{IN} \leq -27\text{V}$ -11.4 -12.6			$V_{IN} = -23\text{V}$ -14.4 -15.0 -15.6 $-18.5\text{V} \leq V_{IN} \leq -30\text{V}$ -14.25 -15.75			$V_{IN} = -23\text{V}$ -14.4 -15.0 -15.6 $-17.5\text{V} \leq V_{IN} \leq -30\text{V}$ -14.25 -15.75			V
Line regulation	$T_J = 25^{\circ}\text{C}$	$-14.5\text{V} \leq V_{IN} \leq -30\text{V}$ 10 240 $-16\text{V} \leq V_{IN} \leq -22\text{V}$ 3 120			$-17.5\text{V} \leq V_{IN} \leq -30\text{V}$ 11 150 $-20\text{V} \leq V_{IN} \leq -26\text{V}$ 3 75			$-17.5\text{V} \leq V_{IN} \leq -30\text{V}$ 11 300 $-20\text{V} \leq V_{IN} \leq -26\text{V}$ 3 150			mV
Load regulation	$T_J = 25^{\circ}\text{C}$ $5\text{mA} \leq I_{OUT} \leq 1.5\text{A}$ $250\text{mA} \leq I_{OUT} \leq 750\text{mA}$		12	240		12	150		12	300	mV
$I_{CC}$	$T_J = 25^{\circ}\text{C}$		1.5	3.0		1.5	3.0		1.5	3.0	mA
	with line	$-14.5\text{V} \leq V_{IN} \leq -30\text{V}$ 1.0 240			$-18.5\text{V} \leq V_{IN} \leq -30\text{V}$ 1.0 150			$-17.5\text{V} \leq V_{IN} \leq -30\text{V}$ 1.0 300			
with load	$5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$		.1	0.5		.1	0.5		.1	0.5	
Output noise voltage	$T_A = 25^{\circ}\text{C}$ $10\text{Hz} \leq f \leq 100\text{kHz}$		300			375			375		μV
Long term stability			48			60			60		mV
Ripple rejection	$f = 120\text{Hz}$ $I_{OUT} = 20\text{mA}$	$-15\text{V} \leq V_{IN} \leq -25\text{V}$ 54 60			$18.5\text{V} \leq V_{IN} \leq -28.5\text{V}$ 54 60			$-18.5\text{V} \leq V_{IN} \leq -28.5\text{V}$ 54 60			dB
Dropout voltage	$T_J = 25^{\circ}\text{C}$ $I_{OUT} = 1.0\text{A}$		1.1			1.1			1.1		V
Output resistance	$f = 1\text{kHz}$		18			19			19		mΩ
$I_{OS}$	$T_J = 25^{\circ}\text{C}$		500			500			500		mA
Peak output current	$T_J = 25^{\circ}\text{C}$		2.1			2.1			2.1		A
Average temperature coefficient of input voltage	$I_{OUT} = 5\text{mA}$	$0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$ -0.8			$0^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$ -1.0			$0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$ -1.0			mV/°C

## NOTE

1.  $7900\text{C} - 0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$

μA7905/05.2/06/08/12/15/18/24-U,DA

## DC ELECTRICAL CHARACTERISTICS

(Cont'd)  $I_{OUT} = 500\text{mA}$ ,  $-55^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$ ,<sup>1</sup>  
 $C_{IN} = 2\mu\text{F}$ ,  $C_{OUT} = 1\mu\text{F}$  unless otherwise specified.

PARAMETER	TEST CONDITIONS	7918			7918C			UNIT
		Min	Typ	Max	Min	Typ	Max	
$V_{OUT}$	$T_J = 25^{\circ}\text{C}$ $P \leq 15\text{W}$ $5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$	$V_{IN} = -27\text{V}$ -17.3   -18.0   -18.7 $-22\text{V} \leq V_{IN} \leq -33\text{V}$ -17.1     -18.9			$V_{IN} = -27\text{V}$ -17.3   -18.0   -18.7 $-21\text{V} \leq V_{IN} \leq -33\text{V}$ -17.1     -18.9			V
Line regulation	$T_J = 25^{\circ}\text{C}$	$-21\text{V} \leq V_{IN} \leq -33\text{V}$   15   180 $-24\text{V} \leq V_{IN} \leq -30\text{V}$ 5   90			$-21\text{V} \leq V_{IN} \leq -33\text{V}$   15   360 $-24\text{V} \leq V_{IN} \leq -30\text{V}$ 5   180			mV
Load regulation	$T_J = 25^{\circ}\text{C}$ $5\text{mA} \leq I_{OUT} \leq 1.5\text{A}$ $250\text{mA} \leq I_{OUT} \leq 750\text{mA}$		12 4	180 90		12 4	360 180	mV
$I_{CC}$ with line	$T_J = 25^{\circ}\text{C}$		1.5 -22V ≤ $V_{IN}$ ≤ -33V	3.0 -33V		1.5 -21V ≤ $V_{IN}$ ≤ -33V	3.0 -33V	mA
with load	$5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$		.1	1.0 0.5		.1	1.0 0.5	
Output noise voltage	$T_A = 25^{\circ}\text{C}$ $10\text{Hz} \leq f \leq 100\text{kHz}$		450			450		μV
Long term stability			72			72		mV
Ripple rejection	$f = 120\text{Hz}$ $I_{OUT} = 20\text{mA}$	$-22\text{V} \leq V_{IN} \leq -32\text{V}$ 54   60			$-22\text{V} \leq V_{IN} \leq -32\text{V}$ 54   60			dB
Dropout voltage	$T_J = 25^{\circ}\text{C}$ $I_{OUT} = 1.0\text{A}$		1.1			1.1		V
Output resistance	$f = 1\text{kHz}$		22			22		mΩ
$I_{OS}$	$T_J = 25^{\circ}\text{C}$		500			500		mA
Peak output current	$T_J = 25^{\circ}\text{C}$		2.1			2.1		A
Average temperature coefficient of input voltage	$I_{OUT} = 5\text{mA}$	$0^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$   -1.0			$0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$   -1.0			mV/°C

## NOTE

1.  $7900\text{C} - 0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$

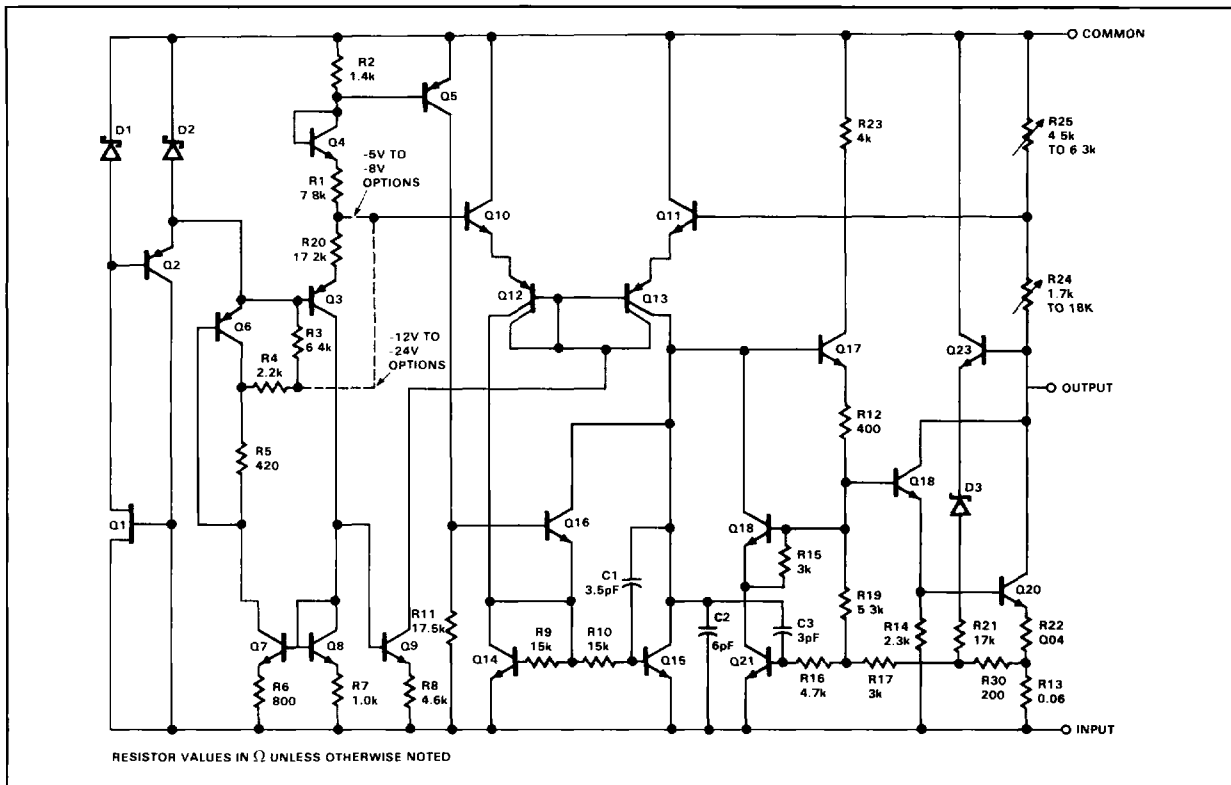
**DC ELECTRICAL CHARACTERISTICS** (Cont'd)  $I_{OUT} = 500\text{mA}$ ,  $-55^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$ ,<sup>1</sup>  
 $C_{IN} = 2\mu\text{F}$ ,  $C_{OUT} = 1\mu\text{F}$  unless otherwise specified.

PARAMETER	TEST CONDITIONS	7924			7924C			UNIT
		Min	Typ	Max	Min	Typ	Max	
$V_{OUT}$	$T_J = 25^{\circ}\text{C}$  $P \leq 15\text{W}$ $5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$	$V_{IN} = -33\text{V}$ -23.0   -24.0   -25.0 $-28\text{V} \leq V_{IN} \leq -38\text{V}$ -22.8     -25.2			$V_{IN} = -33\text{V}$ -23.0   -24.0   -25.0 $-27\text{V} \leq V_{IN} \leq -38\text{V}$ -22.8     -25.2			V
Line regulation	$T_J = 25^{\circ}\text{C}$	$-27\text{V} \leq V_{IN} \leq -38\text{V}$   18   240 $-30\text{V} \leq V_{IN} \leq -36\text{V}$   6   120			$-27\text{V} \leq V_{IN} \leq -38\text{V}$   18   480 $-30\text{V} \leq V_{IN} \leq -36\text{V}$   6   240			mV
Load regulation	$T_J = 25^{\circ}\text{C}$  $5\text{mA} \leq I_{OUT} \leq 1.5\text{A}$ $250\text{mA} \leq I_{OUT} \leq 750\text{mA}$		12 4	240 120		120 4	480 240	mV
$I_{CC}$ with line	$T_J = 25^{\circ}\text{C}$		1.5	3.0		1.5	3.0	mA
with load	$5\text{mA} \leq I_{OUT} \leq 1.0\text{A}$		0.1	1.0 0.5		0.1	1.0 0.5	
Output noise voltage	$T_A = 25^{\circ}\text{C}$ $10\text{Hz} \leq f \leq 100\text{kHz}$		600			600		μV
Long term stability			96			96		mV
Ripple rejection	$f = 120\text{Hz}$ $I_{OUT} = 20\text{mA}$	$-28\text{V} \leq V_{IN} \leq -38\text{V}$ 54   60			$-28\text{V} \leq V_{IN} \leq -38\text{V}$ 54   60			dB
Dropout voltage	$T_J = 25^{\circ}\text{C}$ $I_{OUT} = 1.0\text{A}$		1.1			1.1		V
Output resistance	$f = 1\text{kHz}$		28			28		mΩ
$I_{OS}$	$T_J = 25^{\circ}\text{C}$		500			500		mA
Peak output current	$T_J = 25^{\circ}\text{C}$		2.1			2.1		A
Average temperature coefficient of input voltage	$I_{OUT} = 5\text{mA}$	$0^{\circ}\text{C} \leq T_J \leq 150^{\circ}\text{C}$   -1.0			$0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$   -1.0			mV/°C

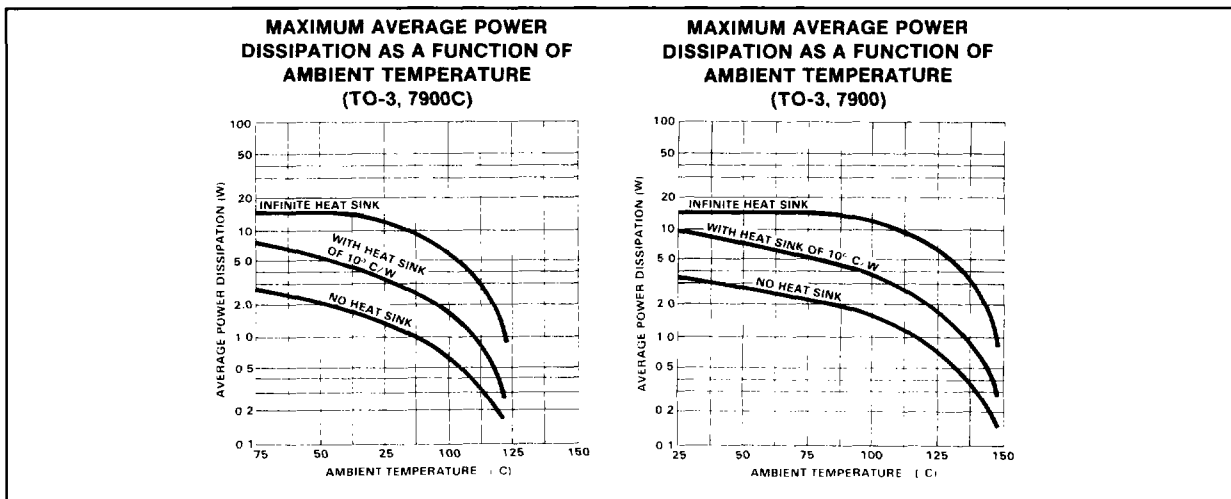
NOTE

1 7900C -  $0^{\circ}\text{C} \leq T_J \leq 125^{\circ}\text{C}$

EQUIVALENT CIRCUIT

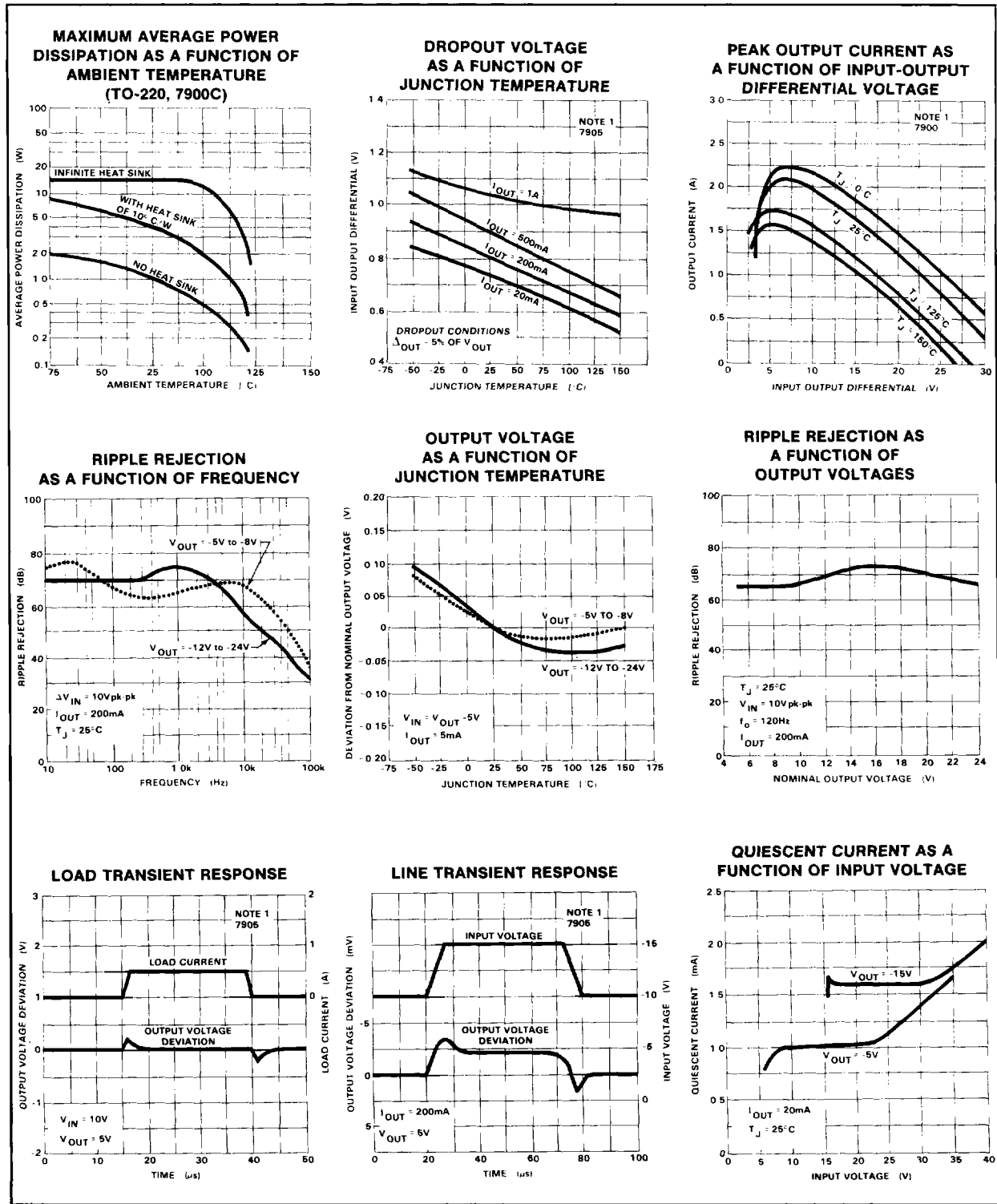


TYPICAL PERFORMANCE CURVES

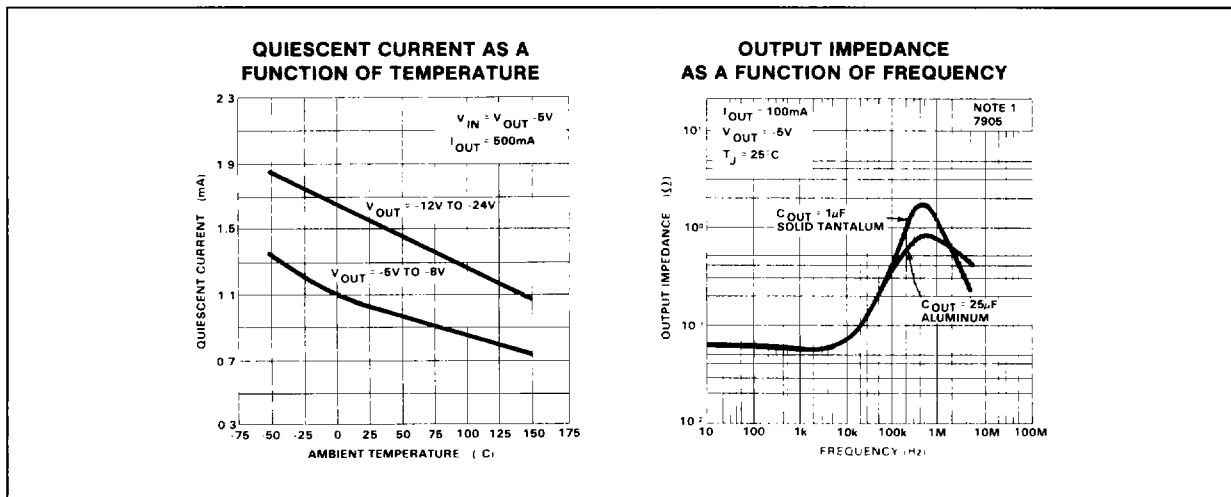




TYPICAL PERFORMANCE CURVES (Cont'd)



**TYPICAL PERFORMANCE CURVES (Cont'd)**



NOTE  
 The other μA7900 series devices have similar performance curves.