

ADJUSTABLE LOW DROPOUT VOLTAGE REGULATOR

■ GENERAL DESCRIPTION

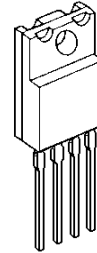
The NJM2397 is adjustable low dropout voltage regulator. The output current is up to 1.5A and dropout voltage is 0.2V typ. at $I_o=0.5A$.

The NJM2397 is suitable for power module, TV, Display, car stereo and low power applications.

■ FEATURE

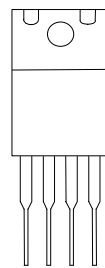
- Low Dropout Voltage $\Delta V_{I-O}=0.2V$ typ. at $I_o=0.5A$
- Output Current $I_o(\max.)=1.5A$
- Reference Voltage $V_{ref}=1.29V$ typ.
- Internal Short Circuit Current Limit
- Internal Thermal Overload Protection
- Bipolar Technology
- Package Outline TO-220F(4pin)

■ PACKAGE OUTLINE



NJM2397F

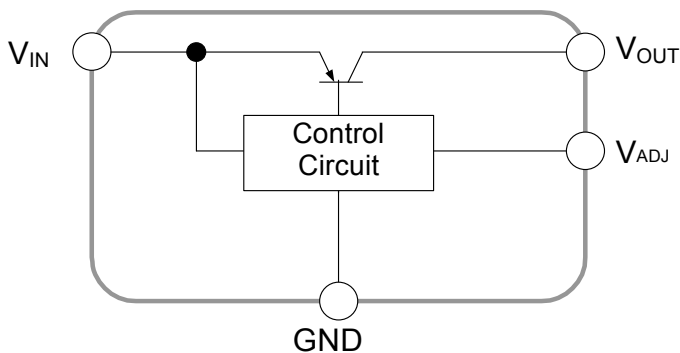
■ PIN CONFIGURATION

1 2 3 4
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PIN FUNCTION

1. V_{IN}
2. V_{OUT}
3. GND
4. ADJ

■ EQUIVALENT CIRCUIT



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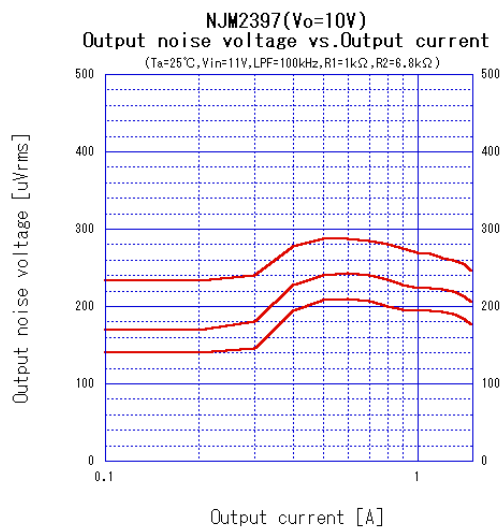
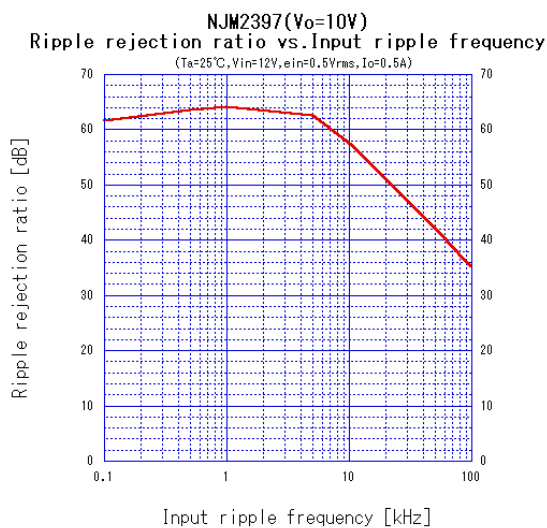
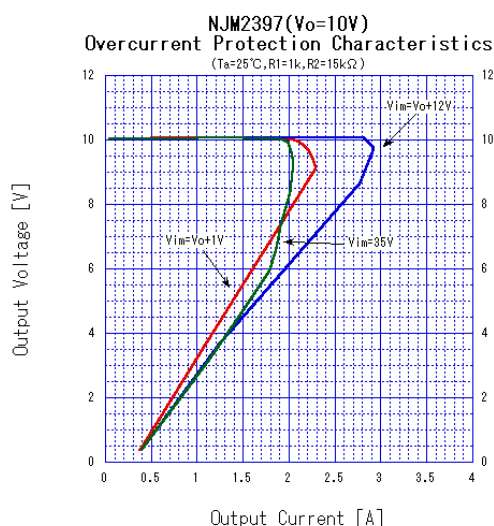
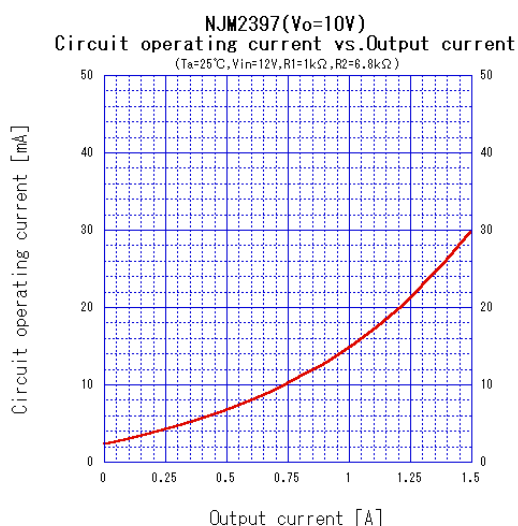
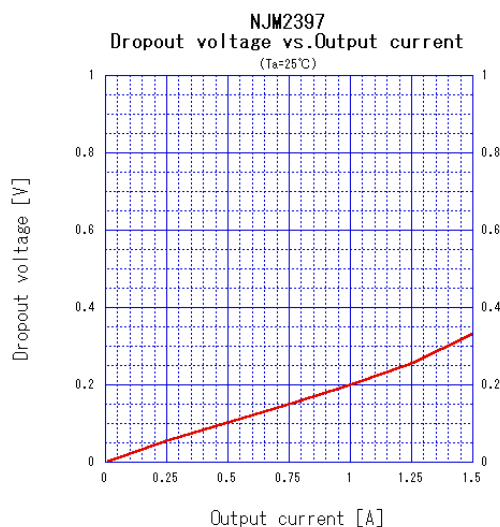
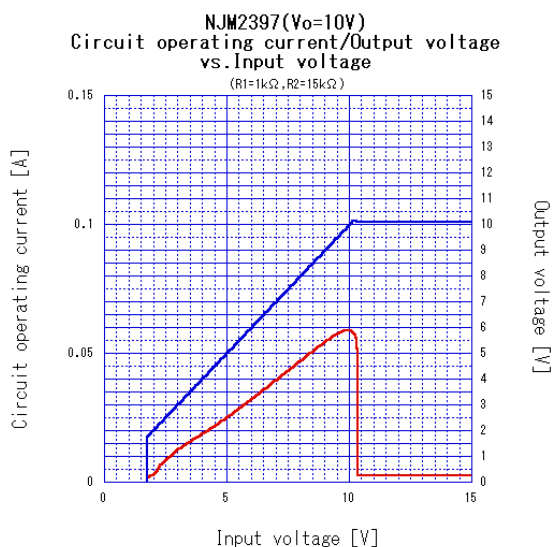
(Ta=25°C)

■ ELECTRICAL CHARACTERISTICS ($V_{IN}=15V$, $V_O=10V$, $I_O=0.5A$, $R_1=1k\Omega$, $C_{IN}=0.33\mu F$, $C_O=22\mu F$, $T_J=25^\circ C$)

PARAMETER	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNIT
Input Voltage	V_{IN}		3.8	-	35	V
Output Voltage	V_O		1.5	-	20	V
Reference Voltage	V_{ref}		1.238	1.29	1.342	V
Line Regulation	$\Delta V_O / \Delta V_{IN}$	$V_{IN} = V_O + 1V \sim V_O + 17V$	-	0.04	0.16	%/V
Load Regulation	$\Delta V_O / \Delta I_O$	$V_{IN} = V_O + 2V, I_O = 0A \sim 1.5A$	-	0.2	1.4	%/A
Average Temperature Coefficient of Output Voltage	$\Delta V_O / \Delta T$	$T_J = 0 \sim 125^\circ C$	-	± 0.02	-	%/ $^\circ C$
Quiescent Current	I_Q	$I_O = 0A$	-	-	5	mA
Dropout Voltage	ΔV_{I-O}	$I_O = 0.5A$	-	0.2	0.5	V
Ripple Rejection	RR	$V_{in} = V_O + 2V,$ $e_{in} = 0.5V_{rms}, f = 120Hz$	45	55	-	dB

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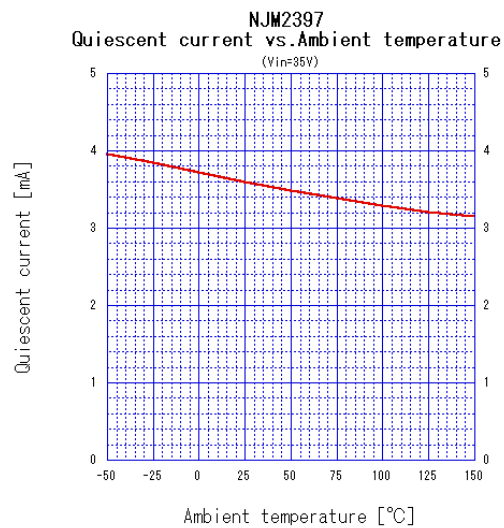
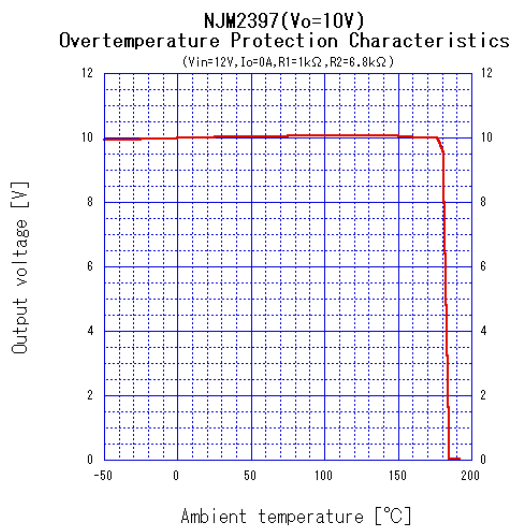
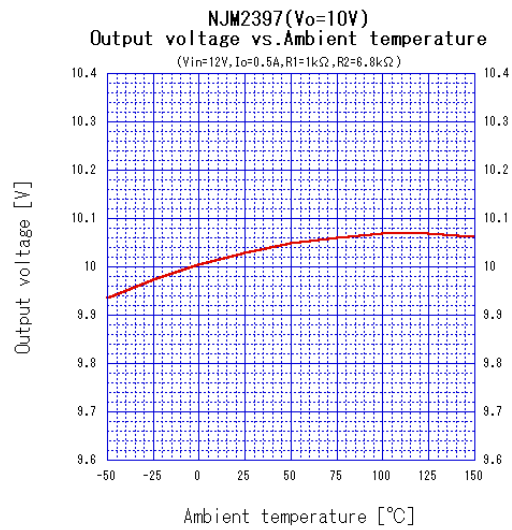
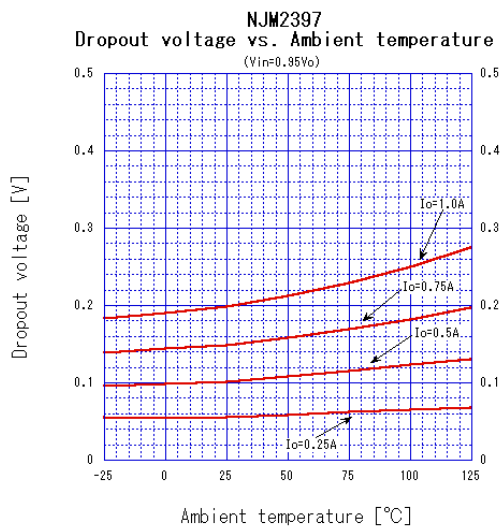
TYPICAL CHARACTERISTICS



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■ TYPICAL CHARACTERISTICS



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