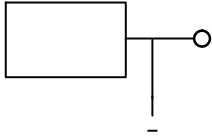


1.0 A Low-Dropout Positive

Features

- 6 / 1 1 0 12 00 70.29927543 432.6237 90036 1.0



NCP1117, NCP1117I, NCV1117

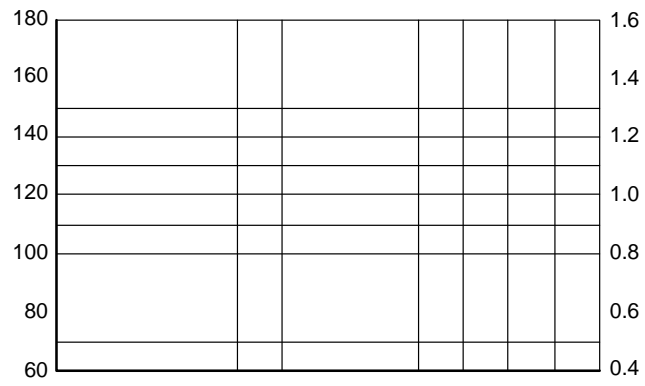
ELECTRICAL CHARACTERISTICS

($C_{in} = 10 \text{ F}$, $C_{out} = 10 \text{ F}$, for typical value $T_A = 25^\circ\text{C}$, for min and max values T_A is the operating ambient temperature range that applies unless otherwise noted.) (Note 4)

Characteristic

NCP1117, NCP1117I, NCV1117

NCP1117, NCP1117I, NCV1117



APPLICATIONS INFORMATION

Introduction

The NCP1117 features a significant reduction in dropout voltage along with enhanced output voltage accuracy and temperature stability when compared to older industry standard three terminal adjustable regulators. These devices contain output current limiting, safe operating area compensation and thermal shutdown protection making them designer friendly for powering numerous consumer and industrial products. The NCP1117 series is pin compatible with the older LM317 and its derivative device types.

Output Voltage

The typical application circuits for the fixed and adjustable output regulators are shown in Figures 23 and 24. The adjustable devices are floating voltage regulators. They develop and maintain the nominal 1.25 V reference voltage between the output and adjust pins. The reference voltage is programmed to a constant current source by resistor R1, and this current flows through R2 to ground to set the output voltage. The programmed current level is usually selected to be greater than the specified 5.0 mA minimum that is

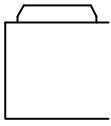
NCP1117, NCP1117I, NCV1117

NCP1117, NCP1117I, NCV1117



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