



Generate a Negative Voltage for OP-AMP or Comparator with 1 Pin from PIC12C508

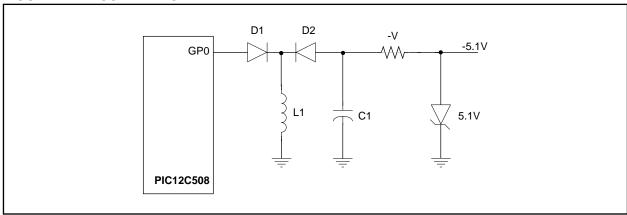
Author: Larry G. Nelson Sr.

Nelson Research Webster, Ma. L.Nelson@ieee.org Pulse GP0 to feed current thru L1. When the port line goes low, D2 will conduct and C1 will charge to a negative voltage. Select frequency and duty cycle to establish current thru L1, -5V has limited current.

INTRODUCTION

Low cost op-amps and comparators often need +/supplies for signal conditions to feed a transducer signal to the PICmicro. A simple charge pump can be implemented from one port pin to provide the negative voltage.

FIGURE 1: SCHEMATIC



Microchip Technology Incorporated, has been granted a nonexclusive, worldwide license to reproduce, publish and distribute all submitted materials, in either original or edited form. The author has affirmed that this work is an original, unpublished work and that he/she owns all rights to such work. All property rights, such as patents, copyrights and trademarks remain with author.

^ :	\sim	. =	• 4
Simn		IPOII	
Simp	IC V	II Gu	IL
—			

|--|