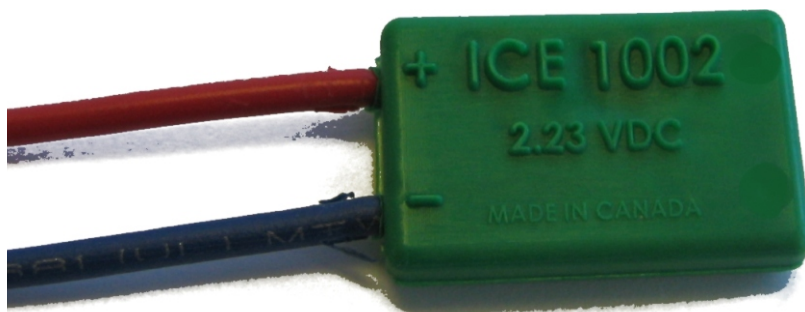




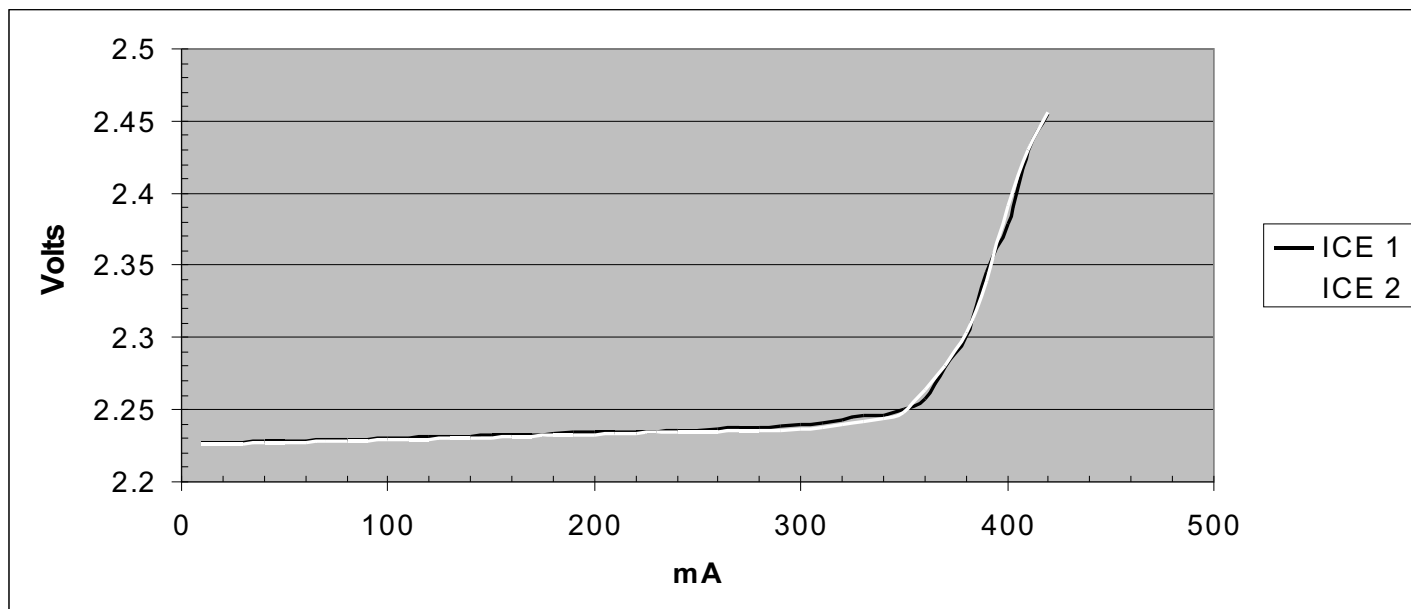
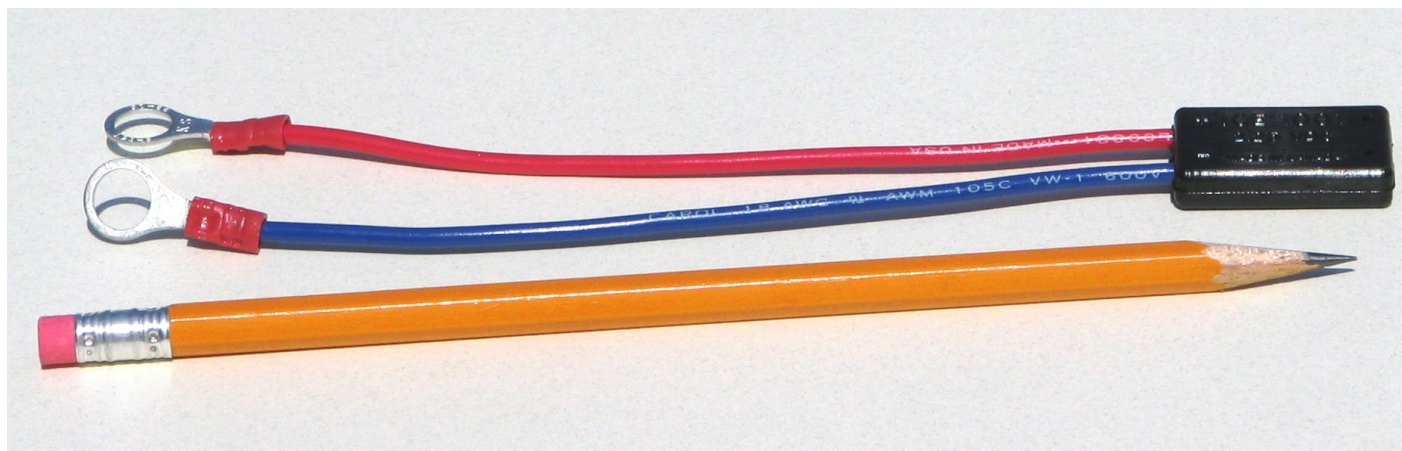
CELL EQUALIZERS

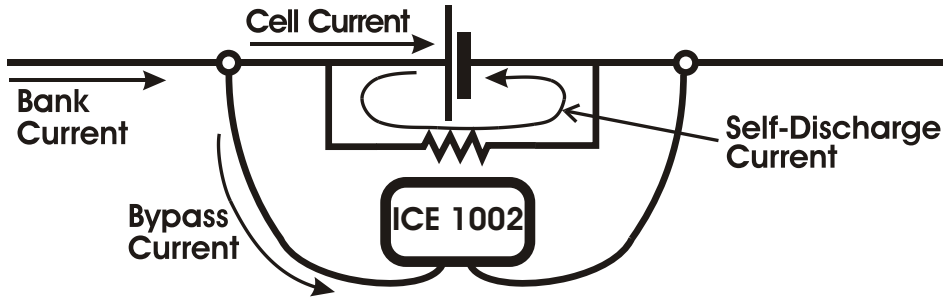
Are not all created equal

ICE 1002



- ◆ Zero variance between units
Requires 2 mA to function
- ◆ $2.23 \pm .01$ Vdc, from 2 - 300mA
- ◆ Temperature stable ($0-30^{\circ}C = .001v$)
- ◆ Small size (.75" x 1.25" x .26", .4 oz., 6" leads)
- ◆ Lug size up to 5/16" bolt

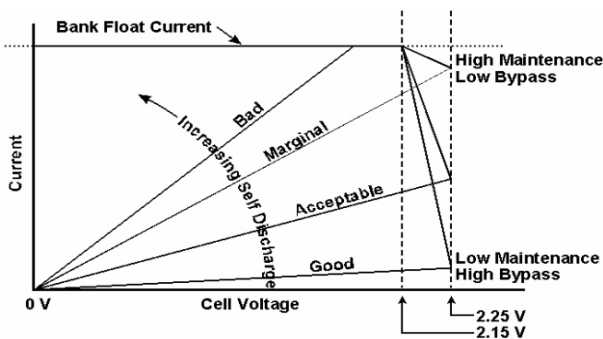




CELL VOLTAGE EQUALIZATION - WHY?

- ♦ Operational and Environmental Stresses Shorten Cell Life
 - ♦ Internal Resistance is Variable From Cell-to-Cell
 - ♦ Cells in Series Result in Cell-to-Cell Voltage Variability
 - ♦ Cell-to-Cell Voltage Variability Causes Charge Variability
 - ♦ Charge Variability Results in Both Over and Under Charging
 - ♦ Present Practice is to, Force Equalization
 - ♦ Forced Equalization Highly Stresses Fully Charged Cells
 - ♦ Cell Voltage Regulation Circumvents the Variability Problem
- Minimizing Cell Stress and Cell Aging*

Internal Resistance is Variable From Cell-to-Cell



Without Individual Cell Equalization

- Good cells are over charged
- Bad cells are under charged

Cell Voltage Equalization Circumvents the Variability

