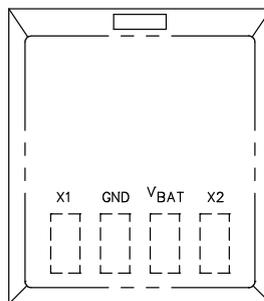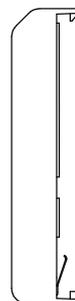# DALLAS
## SEMICONDUCTOR

# DS9034PCX
## PowerCap with Crystal

## FEATURES

- Provides 10 years of battery backup power for Non-volatile Timekeeping RAM's in the PowerCap Module package (PCM)

- Snaps directly onto surface–mounted PowerCap Module Boards

- Detachment feature allows easy removal

- Compatible with these 34–pin PowerCap Modules:
  - DS1644P–xxx
  - DS1646P–xxx
  - DS1647P–xxx



X1    GND   $V_{BAT}$   X2

TOP VIEW

SIDE VIEW

## PIN DESCRIPTION
$V_{BAT}$      –   +3 Volt Battery Output
GND      –   Ground
X1, X2      –   32.768 KHz Crystal Connections

## ABSOLUTE MAXIMUM RATINGS*
Operating Temperature      0°C to 70°C
Storage Temperature      –20°C to +70°C

## CRYSTAL CHARACTERISTICS
Nominal Frequency      32.768 KHz
Load Capcitance      6 pF

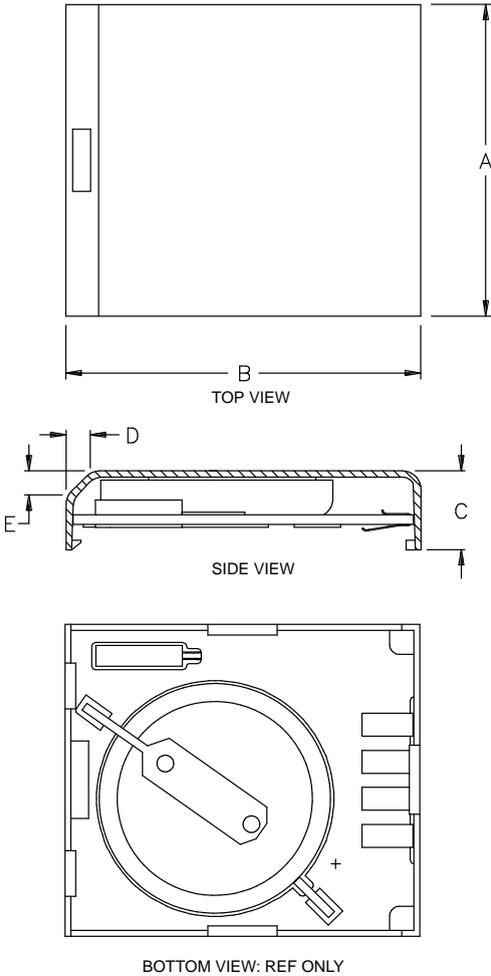## BATTERY CHARACTERISTICS
Nominal Voltage      3V
Nominal Capacity      130 mAhr
Chemistry      Li (CF)x
Data Retention Life      10 Years (25°C)

\* This is a stress rating only and functional operation of the device at these or any other conditions above those indicated in the operation sections of this specification is not implied. Exposure to absolute maximum rating conditions for extended periods of time may affect reliability.

## DESCRIPTION
The DS9034PCX PowerCap is designed to be a snap–on lithium power source for Nonvolatile Time-keeping RAMs in Dallas Semiconductor's directly sur-face–mountable PowerCap Module (PCM) package. After a PowerCap Module Board has been soldered in place and cleaned, the DS9034PCX PowerCap is snapped on top of the PCM Board to form a complete PowerCap Module package. The PowerCap is keyed to prevent incorrect attachment. The DS9034PCX can be easily removed by inserting a regular screwdriver into a detachment feature and prying gently outward and upward to release the PowerCap from the PowerCap Module Board.

## DS9034PCX



TOP VIEW



SIDE VIEW

| PKG | INCHES | | |
|-----|-------|-------|-------|
| DIM | MIN | NOM | MAX |
| A | 0.845 | 0.850 | 0.855 |
| B | 0.955 | 0.960 | 0.965 |
| C | 0.210 | 0.215 | 0.220 |
| D | 0.065 | 0.070 | 0.075 |
| E | 0.065 | 0.070 | 0.075 |



BOTTOM VIEW: REF ONLY

POWER CAP: BATTERY AND CRYSTAL