Advanced Diagnostics
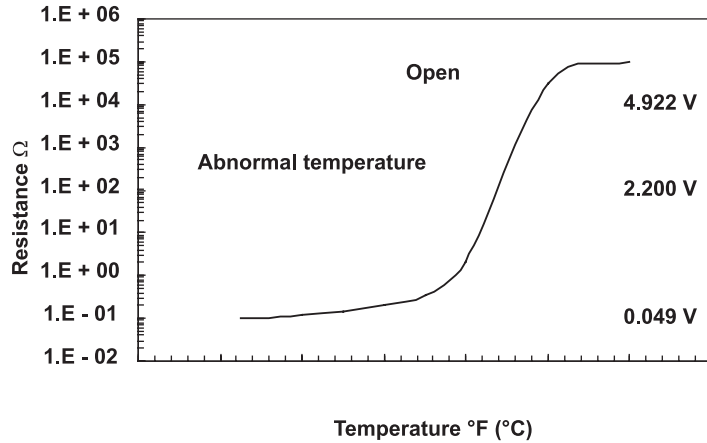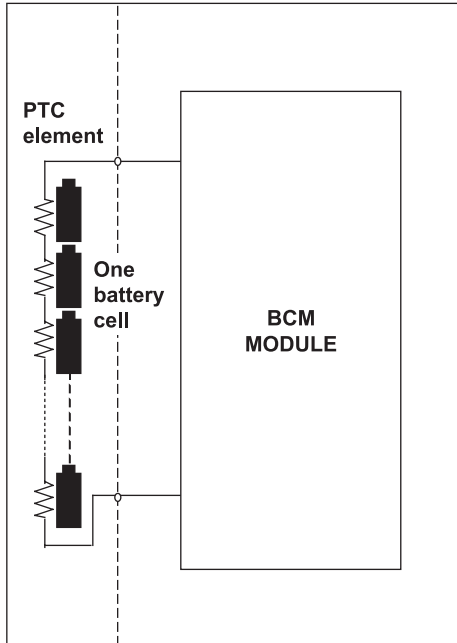
DTC P1568 (70): Battery Cell Temperature Signal Circuit Problem

PTC element circuit

(Spec. ; per single cell)
  158 ºF (70 ºC) or below   : 2 Ω or less
  212 ºF (100 ºC) or above : 600 Ω or more
(A set value)
  440 Ω : Activated at 194 ºF (90 ºC) or above

P1568-0073

General Description

A PTC (positive temperature coefficient) element shows the characteristics as shown above (i.e. drastically increases the resistance at a temperature between 158 - 212ºF (70 - 100ºC), and it is used to determine if a monitored object temperature exceeds a set value. The PTC is installed in each of the 120 battery cells to detect overheating, an open, or a short individually. If the PTC input voltage is more than the upper threshold or less than lower threshold, a malfunction is detected and a DTC is stored.

Monitor Execution, Sequence, Duration, DTC Type

Execution	Continuous
Sequence	None
Duration	2 seconds or more
DTC Type	One drive cycle, MIL ON, IMA system indicator ON

Enable Conditions

Condition	Minimum	Maximum
BCM power-supply voltage	7.5 V	—
No active DTCs	BCM	
Ignition switch	ON	

Malfunction Threshold

The PTC input voltage is 4.93 V or more, or 0.04 V or less, for at least 2 seconds.

Diagnosis Details

Conditions for illuminating the MIL
When a malfunction is detected, the MIL comes on and the DTC and the freeze frame data are stored in the ECM memory.

Conditions for clearing the MIL
The MIL will be cleared if the malfunction does not recur during three consecutive trips in which the diagnostic runs.
The MIL, the DTC, and the freeze frame data can be cleared by using the scan tool Clear command or by disconnecting the battery.