DISCHARGE CHARACTERISTICS OF SOLID STATE
CELL, Cu/Cu_2SO_4 : Mg-Mont./Mg

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As a part of an ongoing programme on solid state electrochemical power sources
using Cu^+ ion conducting solid electrolytes, we have investigated the dis-
charge characteristics of the cell Cu/Cu_2SO_4:Mg-Mont./Mg, where the solid
electrolyte consists of a thin film of cuprous sulphate chemically deposited
copper substrate and a thin pellet of magnesium montmorillonite in mecha-
nical contact with the Cu_2SO_4 film and a Mg foil. Constant load discharge
characteristics for various load resistors have been studied. A typical cell
has an open circuit voltage of 1.8 V, a short circuit current of 900 μA. The
estimated capacity of a cell is about 8 mAh.

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References:

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