# Power Device Package ~POL(Power Overlay)~

#### - Under development, sample is available -

### Features

- Fully wire-bondless power semiconductor package solution
- High dimensional precision and stable shape reproducibility of circuit by photolithography
- Multiple chip package for high power density, low profile, low loss, high heat dissipation, high efficiency and reliability

## Structure

## Standard

 Redistribution layer on isolation film above power device







Φ750µm Via cross section



#### Mold POL

- Construction of half-bridge or full-bridge circuits by attaching leadframe or DBC substrate on the bottom of chips
- · Protect all components from the external environment by mold resin



## Examples

- Wide Band Gap semiconductors, e.g. GaN, SiC, embedded power supply units
- 40 to 50% volume down, GaN Half bridge block and SiC Full bridge block with POL



GaN Half Bridge Block

SHINKO ELECTRIC INDUSTRIES CO., LTD. 80 Oshimada-machi, Nagano-shi, Nagano 381-2287 JAPAN





(SHINKO & Tohoku University Joint Research Theme) SiC Full Bridge Block

Please contact us via inquiry form on the web. https://www.shinko.co.jp/english/product/inqui ry/form/index.php

