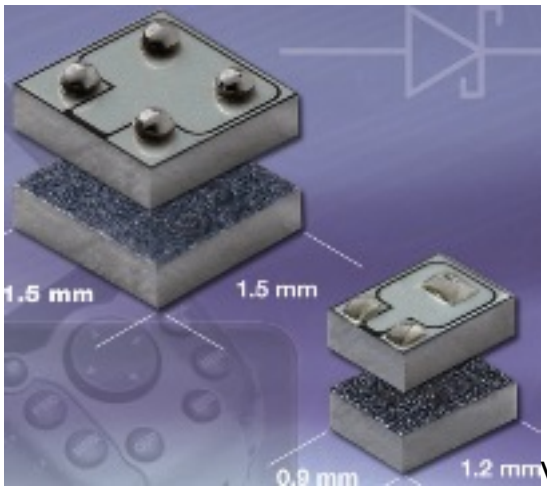
Small-Footprint 0.5 A, 1 A and 1.5 A Flip Chip Schottky Diodes



Vishay Intertechnology offers FlipKY chip scale Schottky diodes that are said to be the smallest such devices on the market. The Vishay FCSP FlipKY Series includes 0.5 A, 1 A, and 1.5 A devices with footprint dimensions of 0.9 mm × 1.2 mm and 1.5 mm × 1.5 mm. With low profiles of 0.6 mm for the 1 A device and 0.5 mm for the 0.5 A device, these diodes are designed to save space in cell phones, Bluetooth accessories, PDAs, MP3 players, digital cameras, personal video players, and other portable electronic systems where low-profile devices are required. Typical applications include battery protection, freewheeling diode, boost diode, and current steering. The FlipKY wafer-level, chip scale format offers the anode and cathode on the same side of the die. The anode and cathode connections are made through solder bump pads on one side of the silicon, enabling designers to strategically place the diodes on the PCB. This design minimizes board space and reduces thermal resistance and inductance, allowing the virtual elimination of all package parasitic for improved overall circuit efficiency. The devices offer low maximum forward voltages from 0.33 V to 0.47 V and a maximum reverse voltage of 30 V and 40 V.

Vishay Intertechnology
610-407-4800, www.vishay.com [1]

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