



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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## ECell: Breadboard-Plugin Diode and Transistor SKU:FIT0426



### INTRODUCTION

Introducing "The Breadboard-Plugin Kit" - the first kit in the ECell series. The Breadboard-Plugin Kit provides a range of common components such as resistors, capacitors, diodes, transistors etc. that are compatible with a solderless breadboard. This Diode package module has gold-plated pins making it solid and durable and also gives it excellent conductivity. It plugs neatly and easily in the breadboard and is both reliable and reusable.

Using this innovative approach solves common problems that occur when using DIP components, such as:

- \*Difficulty reading confusing resistor color codes
- \*Deforming component pins and breadboard tie-points after use
- \*Using components with a different pin-pitch than your breadboard
- \*Confusing the order of a transistor's collector, emitter and base pins
- \*Using a confusing mess of jumper wires to connect small components

The Breadboard-Plugin Kit is designed by Maker LeoYan, and is produced and sold by DFRobot

This is a Diode package only,click ECell: Breadboard-Plugin Components Pack to get the whole component kit.

## FEATURES

- **Easy to recognize:** resistance values, capacitance values, polarity and pin functions are clearly marked on each component
- **Easy to learn:** standard circuit symbols are clearly marked on each component helping you learn how to read schematic diagrams
- **Easy to use:** Pins plug directly in to the breadboard, saving a confusing mess of jumper wires
- **Easy to Plug/unplug:** The 0.64mm diametral pin perfectly matches standard breadboard tie-points
- **High-reliability:** Each component is manufactured using ENIG technology making the circuit connection reliable and durable
- **Environmentally-friendly:** Each part is durable and reusable making it friendly to the environment

## SPECIFICATION

- Diode:  $I_f=1A$ ,  $V_{fm}=0.7V$ ,  $V_r=40V$
- Transistor-NPN:  $V_{ceo}=45V$ ,  $I_c=500mA$ ,  $hFE=400$
- Transistor-PNP:  $V_{ceo}=-45V$ ,  $I_c=-500mA$ ,  $hFE=400$

## SHIPPING LIST

- Diode x4
- NPN transistor x2
- PNP transistor x2