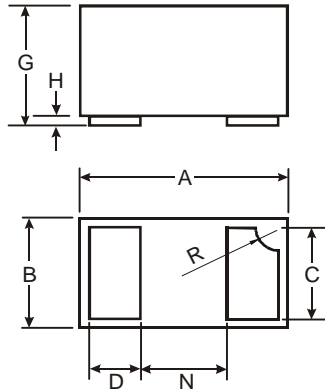


Announcing Our “NEW” Flat No-Lead  
Ultra Compact DFN1006-2 Package  
With the Release of Four Schottkys & a Zener Series

Also Qualified DFN1006-3 Package. Products in DFN1006-3 Coming Soon.



DFN1006-2			
Dim	Min	Max	Typ
A	0.95	1.05	1.00
B	0.55	1.30	0.60
C	0.45	0.55	0.50
D	0.20	0.30	0.25
G	0.47	0.53	0.50
H	0	0.05	0.03
N	—	—	0.40
R	0.05	0.15	0.10
All Dimensions in mm			

### Benefits

- Utilizing QFN (Quad Flat No Lead) packaging – a proven technology for ICs.
- Ultra compact package perfect for space constrained applications.
- Power dissipation rating comparable to SOT-23 package.

### Dimensional Highlights

- Low profile: Only 0.53 mm tall (maximum), ideal for height limited applications. Compare with 1.10 mm for SOT-23 and 1.35 mm for SOD-123.
- Small footprint: Occupies only 0.77 mm<sup>2</sup> (maximum) of PCB area, which can be compared with:
  - 9.9mm<sup>2</sup> for SOT-23
  - 7.6mm<sup>2</sup> for SOD-123

### Availability

- **Samples & Stock:** The p/n's (below) in **Purple** are Now Available. The p/ns (below) in **Green** will be available in June.
- **Data Sheets Available NOW at:** [www.diodes.com](http://www.diodes.com) (click p/ns below for datasheets)

**BAS40LP**  
**BAT54LP**  
**SDM10U45LP**  
**SDM20U30LP**  
**BZT52C5V6LP**  
**BZT52C6V2LP**  
**BZT52C6V8LP**  
**BZT52C7V5LP**  
**BZT52C8V2LP**  
**BZT52C9V1LP**  
**BZT52C10LP**  
**BZT52C11LP**  
**BZT52C13LP**

**BZT52C12LP**  
**BZT52C15LP**  
**BZT52C16LP**  
**BZT52C18LP**  
**BZT52C20LP**  
**BZT52C22LP**  
**BZT52C24LP**

## Performance Benefits

- **Highest power density package: 325mW/mm<sup>2</sup>, which can be compared with:**
  - 30mW /mm<sup>2</sup> for SOT-23
  - 65mW /mm<sup>2</sup> for SOD-123

## Package Highlights

- Flat, Leadless Package consumes Small PCB Real Estate while providing Maximum Functionality with No Sacrifice in Performance
- Qualified to AEC-Q101 Standards for High Reliability

## Solderability & Environmental Highlights

- RoHS Compliant
- “Green” (No Bromine, Antimony) Molding Compound
- Pb-Free plating
- Withstands 260°C Solder Reflow
- Meets Moisture Sensitivity Level (MSL) 1

## Applications

- Voltage Regulation / Conversion
- I/O Transient Voltage Protection
- ESD Protection
- Dataline Protection & Termination
- High-efficiency Rectification
- Signal “OR”-ing Circuits
- Reverse Polarity Protection
- Switching Circuits

## End Equipment Applications

- Mobile Phones
- PDAs
- Portable MP3 Players
- Portable DVD Players
- Camcorders
- Digital Cameras
- Optical Disk Drives
- Notebook Computers
- Wireless Equipment

**Crosses to Other Manufacturers' Parts**

<b>Diodes, Inc.</b>	<b>Philips</b>	<b>Infineon</b>
Part Number	Part Number	Part Number
BAS40LP	BAS40L	BAS40-02L
BAT54LP	BAT54L	-
SDM10U45LP	-	-
SDM20U30LP	-	-
BZT52C5V6LP	BZX884-C5V6	-
BZT52C6V2LP	BZX884-C6V2	-
BZT52C6V8LP	BZX884-C6V8	-
BZT52C7V5LP	BZX884-C7V5	-
BZT52C8V2LP	BZX884-C8V2	-
BZT52C9V1LP	BZX884-C9V1	-
BZT52C10LP	BZX884-C10	-
BZT52C11LP	BZX884-C11	-
BZT52C12LP	BZX884-C12	-
BZT52C13LP	BZX884-C13	-
BZT52C15LP	BZX884-C15	-
BZT52C16LP	BZX884-C16	-
BZT52C18LP	BZX884-C18	-
BZT52C20LP	BZX884-C20	-
BZT52C22LP	BZX884-C22	-
BZT52C24LP	BZX884-C24	-