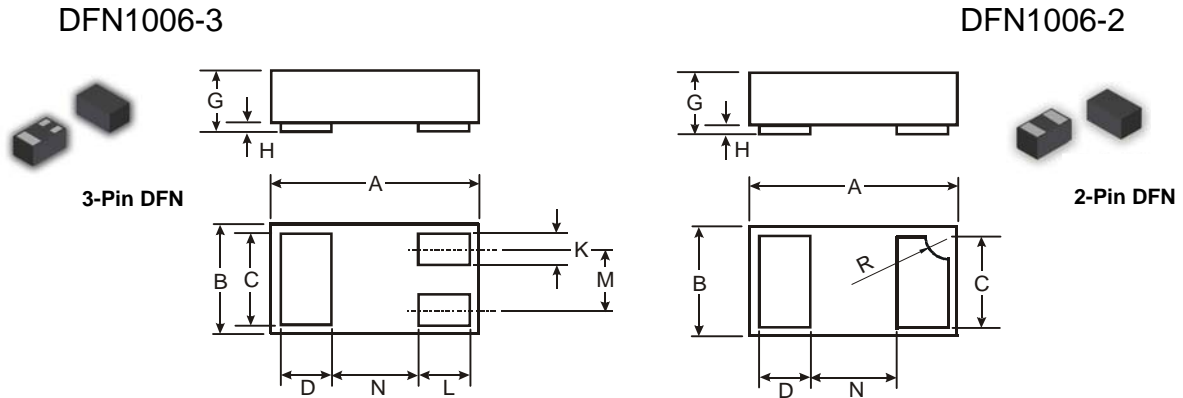


Announcing Expanded Offerings in “New” Flat, No-Lead Ultra-Compact DFN1006-2 and DFN1006-3 Packages --

Switching Diodes (1N4448HLP & BAS16LP) and Transistors (BC847BLP & BC857BLP)



Dim	DFN1006-3			DFN1006-2		
	Min	Max	Typ	Min	Max	Typ
A	0.95	1.075	1.00	0.95	1.075	1.00
B	0.55	0.675	0.60	0.55	0.675	0.60
C	0.45	0.55	0.50	0.45	0.55	0.50
D	0.20	0.30	0.25	0.20	0.30	0.25
G	0.47	0.53	0.50	0.47	0.53	0.50
H	0	0.05	0.03	0	0.05	0.03
K	0.10	0.20	0.15	—	—	—
L	0.20	0.30	0.25	—	—	—
M	—	—	0.35	—	—	—
N	—	—	0.40	—	—	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 ideal for space constrained applications.
- Power dissipation rating comparable to SOT-23 package.
- Green molding compound with lead-free terminals and RoHS compliant.

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 mm² (maximum) of PCB area, which can be compared with:
 - 7.5mm² for SOT-23
 - 5.2 mm² for SOD-123

Availability

- Samples & Stock:** - Now Available!
- Production Quantity Leadtime:** Stock to 10 weeks for all parts.
- Data Sheets Available NOW at:** www.diodes.com

Please download from website Product Search field, or click p/n below:

BAS16LP <http://www.diodes.com/datasheets/ds30505.pdf>
1N4448HLP <http://www.diodes.com/datasheets/ds30590.pdf>
BC847BLP <http://www.diodes.com/datasheets/ds30525.pdf>
BC857BLP <http://www.diodes.com/datasheets/ds30526.pdf>

Performance Benefits

- Highest power density package: 325mW/mm², which can be compared with:
 - 30 mW /mm² for SOT-23
 - 65 mW /mm² 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

- DC-DC Converters
- Rectification
- Signal “OR”-ing Circuits
- Reverse Polarity Protection
- Switching Circuits
- SMPS
- Relay Drivers
- Linear Voltage Regulators

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

Diodes, Inc.	Philips	Infineon
Part Number	Part Number	Part Number
1N4448HLP	Industry First!	
BAS16LP	BAS16L	BAS16L-02L
BC847BLP	BC847M	BC847BL3
BC857BLP	BC857M	BC857BL3