

Announcing “NEW” Pre-Biased Bipolar Junction (NPN/PNP) Transistors in Our Efficient Compact DFN1006-3 Package

Package Type and Dimensions:

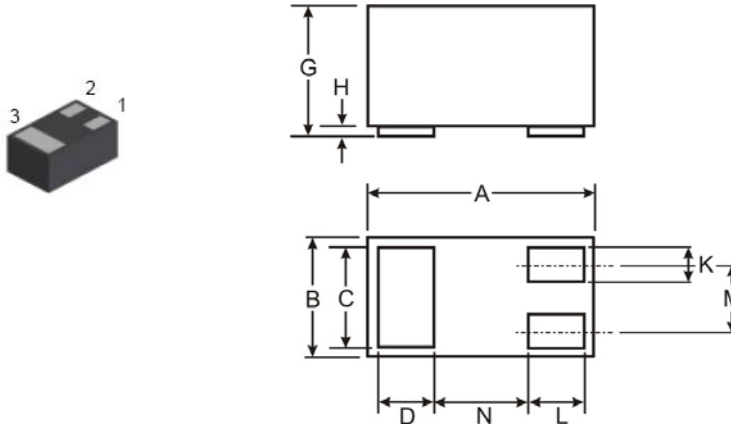


Fig. 1

DFN1006-3			
Dim	Min	Max	Typ
A	0.95	1.075	1.00
B	0.55	0.675	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
K	0.10	0.20	0.15
L	0.20	0.30	0.25
M	—	—	0.35
N	—	—	0.40
All Dimensions in mm			

Circuit Diagrams:

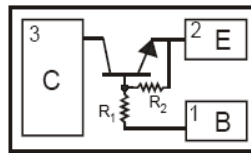


Fig. 2 NPN

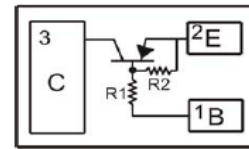


Fig. 3 PNP

Features / Benefits

- Built-in Bias Resistors Simplify Circuit Design
- Leadless Package Minimizes Parasitic Losses and Increases Reliability
- Small Package Footprint Improves PCB Efficiency
- Superior Thermal Characteristics Equivalent to SOT-23 while 23 Times Smaller in Volume
- Reduced Component Count Improves Logistics and Lowers Production Cost
- Sub-Miniature Profile, Ideal for Compact Designs
- Surface Mount Package, Ideally Suited For Automated Assembly Processes
- “Green” Device. Lead Free By Design and RoHS Compliant

Availability

- **Samples & Stock:** - Now Available!
- **Production Quantity Lead Time:** Stock to 10 weeks
- **Data Sheets Available NOW at:** www.diodes.com

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

DDTC123JLP	http://www.diodes.com/datasheets/ds30755.pdf	[NPN]
DDTC143ZLP	http://www.diodes.com/datasheets/ds30755.pdf	[NPN]
DDTC114YLP	http://www.diodes.com/datasheets/ds30755.pdf	[NPN]
DDTC114ELP	http://www.diodes.com/datasheets/ds30945.pdf	[NPN]
DDTA144ELP	http://www.diodes.com/datasheets/ds30844.pdf	[PNP]

Applications

- Level Shifting and Signal Inverting Circuits
- Open Collector Inverters
- Small Load Switching Power Circuits
- Input Controlling Circuits for ICs
- Standalone Transistor Switch

End-User Applications

- Battery Powered Portable Electronic Devices
 - Notebook Computers, Tablet PCs
 - Cellular Phones, GPS
 - PDAs, MP3 Players
 - Camcorders, Digital Cameras
 - Handheld Electronic Games
- Computer Products and Peripherals
 - Controller and Motherboards
 - Print Servers, Graphic or Video Cards
- Power Supplies, Point of Load Regulator Modules, Battery Chargers, UPSs
- Video Game Consoles
- General Purpose Power Supply Switches for LEDs

Crosses from Industry Parts

Diodes, Inc.	NXP (Formerly Philips Semiconductor)	Toshiba	ROHM*
DDTC123JLP	PDTC123JM	RN1105FS	DTC123JM
DDTC143ZLP	PDTC143ZM	RN1106FS	DTC143ZM
DDTC114YLP	PDTC114YM	RN1107FS	DTC114YM
DDTC114ELP	PDTC114EM	RN1102FS	DTC114EM
DDTA144ELP	PDTA144EM	RN1104RS	DTA144EM

*Compact replacement for VMT3 packages.

Note: Crosses are provided as guidelines only and should be confirmed by comparing to data sheets. All data is subject to change. Please check www.diodes.com for updates.