

NL17SZxxx Series

Low Voltage CMOS Single-Gate Functions



Description

- High performance one-gate, functions
(tpd= 2.0 ns @ 5V Vcc)
- CMOS/LVTTL Compatible
- Operates from a 1.65 to 5.5V Supply
- Over-voltage tolerant I/O up to +7.0v
- Near static supply current
- Ultra Small SOT553 (5-lead)

Benefits

- Low profile for height constrained portable products
- 36% less board space than SC88
- Environmentally friendly
- Proven reliability

Applications

- Cellular phones, Cordless phones, PDAs
- Digital cameras, Video Cameras
- MP3 players
- Computers, Printers

Key Features

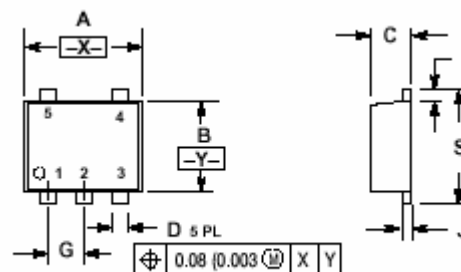
- 0.60mm max package height
- 1.70 x 1.70mm max footprint
- 100% Lead Free
- MSL1@260deg C Reflow Temperature.

Ordering Information

NL17SZxxxXV5T2

Example: NL17SZU04XV5T2 (4mm pitch 4k/reel)

- Gates (00,02,08,32)
 - Inverters (04, 06*, U04) Buffers (07*,16)
 - Schmitt Inverter (14) Buffer (17)
- * open drain



DIM	MILLIMETERS	
	MIN	MAX
A	1.50	1.70
B	1.10	1.30
C	0.50	0.60
D	0.17	0.27
G	0.50 BSC	
J	0.08	0.18
K	0.10	0.30
S	1.50	1.70



For details contact your sales representative, local distributor, or visit
www.onsemi.com

ON Semiconductor

NSBxxxxxDXV5/6 series

Dual BRTs in SOT-553 and SOT-563

Description

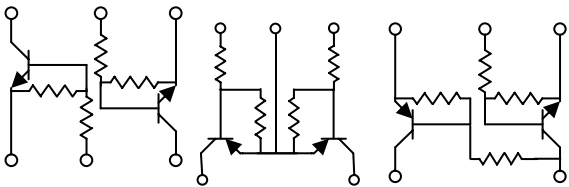
- 50V 100mA NPN and PNP BRTs (Digital Transistors)
- Ultra Small SOT553 (5-lead) and SOT-563 (6-lead) package
- Dual NPN, Dual PNP, and Dual Complimentary devices
- Broad range of Resistor combinations:
 - R1=R2: 1k/1k, 2.2k/2.2k, 4.7k/4.7k, 10k/10k, 22k/22k, 47k/47k, 100k/100k
 - R1<R2: 2.2k / 47k, 4.7k / 47k, 10k / 47k, 22k / 47k
 - R1>R2: 47k / 22k
 - R1 only: 4.7k, 10k

Benefits

- Low profile for height constrained portable products
- 36% less board space than SC88
- Reduces part count and placement cost
- Environmentally friendly
- Proven reliability

Ordering Information

- Dual BRTs in SOT-563: NSBxxxxxDXV6T5
 - Example: NSBA114TDXV6T5 (2mm pitch 8k/reel)
 - Example: NSBA114TDXV6T1 (4mm pitch 4k/reel)
- Common Emitter BRTs in SOT-553:
 - Example: EMA6DXV5T5 (2mm pitch 8k/reel)
- Base-Collector Connected BRTs in SOT-553:
 - Example: EMC5DXV5T1 (4mm pitch 4k/reel)



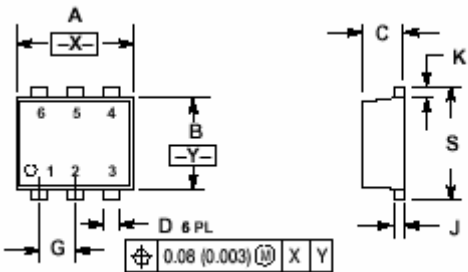
Applications

- Cellular phones, Cordless phones, PDAs
- Digital cameras, Video Cameras
- MP3 players
- Computers, Printers

Key

Features

- 0.60mm max package height
- 1.70 x 1.70mm max footprint
- Dual configuration
- 100% Lead Free
- MSL1@260deg C Reflow Temperature.
-



DIM	MILLIMETERS	
	MIN	MAX
A	1.50	1.70
B	1.10	1.30
C	0.50	0.60
D	0.17	0.27
G	0.50 BSC	
J	0.08	0.18
K	0.10	0.30
S	1.50	1.70

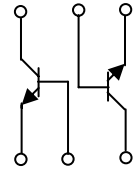


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NSTxxxxDXV6 series

Dual Bipolar Signal Transistors in SOT-563



Description

- 30 – 60V 100 - 200mA NPN and PNP BJTransistors
- Ultra Small SOT563 package (1.6x1.6mm)
- Dual NPN, Dual PNP, and Dual Complimentary devices
- Broad range of industry standard transistors:
 - NPNs: 3904s, BC846s, BC847s, BC848s
 - PNPs: 3906s, BC856s, BC857s, BC858s
 - Complimentary versions

Applications

- Cellular phones, Cordless phones, PDAs
- Digital cameras, Video Cameras
- MP3 players
- Computers, Printers

Benefits

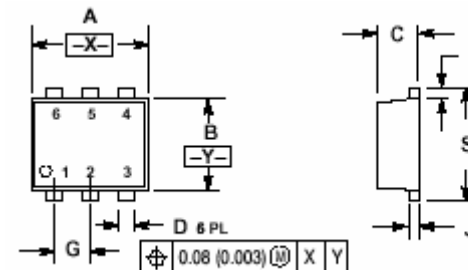
- Low profile for height constrained portable products
- 36% less board space than SC88
- Reduces part count and placement cost
- Environmentally friendly
- Proven reliability

Key Features

- 0.60mm max package height
- 1.70 x 1.70mm max footprint
- Dual configuration
- 100% Lead Free
- MSL1@260deg C Reflow Temperature.

Ordering Information

- Dual Transistors: NSTxxxxDXV6T5
 - Example: NST3904DXV6T5 (2mm pitch 8k/reel)
 - Example: BC846BDXV6T1 (4mm pitch 4k/reel)
- Complimentary Duals: NSTxxxxPDXV6T5
 - Example: NST3946PDXV6T1 (4mm pitch 4k/reel)
 - Example: BC846BPDXV6T1 (2mm pitch 8k/reel)



DIM	MILLIMETERS	
	MIN	MAX
A	1.50	1.70
B	1.10	1.30
C	0.50	0.60
D	0.17	0.27
G	0.50 BSC	
J	0.08	0.18
K	0.10	0.30
S	1.50	1.70

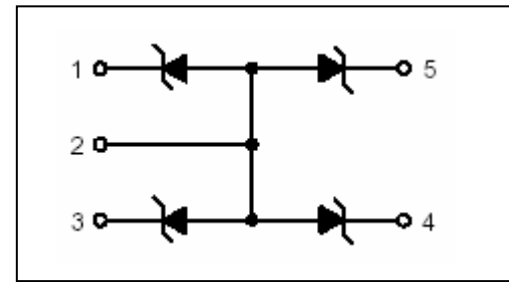


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NZQA series

Quad Array in SOT-553



Description

- **Breakdown Voltage: 5.6V, 6.2V & 6.8 V @ 1 mA**
- **Low Leakage < 1uA**
- **Peak Power Dissipation: 100 W @ 8*20 us**
- **Steady State Power Dissipation 300 mW**

Benefits

- Protect equipments/components from surge current/voltage damages
- Protect users from surge current/voltage damage
- Saves board space
- Saves component cost

Ordering Information

- NZQA5V6XV5T1
- NZQA6V2XV5T1
- NZQA6V8XV5T1

Additional Information

- See <http://www.onsemi.com/site/products/summary/0,4450,NZQA,00.html>

Applications

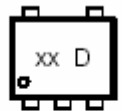
- Cellular phones, cordless phones, computers, printers, Digital cameras, MP3 players, business machines, communication systems & medical equipment

Key Features

ESD Protection Meeting 61000-4-2 Level 4 and 16 kV Human Body Model
SOT-553 Package for high Density Application
100% Lead Free, MSL1@260deg C Reflow Temperature.



SOT-553
CASE 463B
PLASTIC



xx = Device Marking
D = One Digit Date Code



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