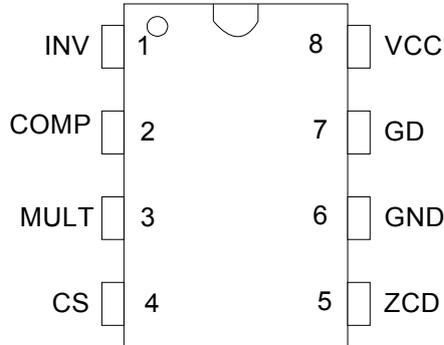


GENERAL INFORMATION

Terminal Assignment

In SOP8 or DIP8 Package.



Ordering Information

| Part Number | Description |
|-------------|----------------------------|
| OB6561PXAP | 8 Pin DIP, Pb free in Tube |
| OB6561PXCP | 8 Pin SOP, Pb free in Tube |
| OB6561PXCPA | 8 Pin SOP, Pb free in T&R |

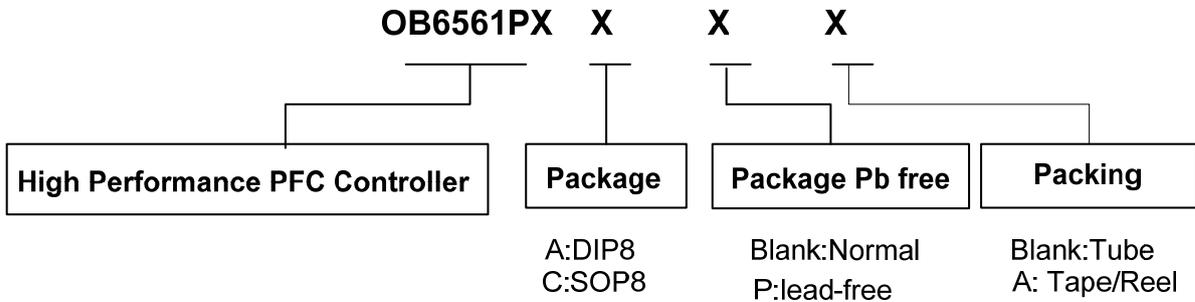
Package Dissipation Rating

| Package | RθJA (°C/W) |
|---------|-------------|
| DIP8 | 90 |
| SOP8 | 150 |

Absolute Maximum Ratings

| Symbol | Parameter | Value |
|---------------------------|--|-----------------------------|
| VCC | DC Supply voltage | 30 V |
| I_ZCD | Zero Current Detector Max. Current | 50mA(source) -10mA(sink) |
| CS INV COMP MULT | Analog inputs & outputs | -0.3 to 7V |
| Tj | Min/Max Operating Junction Temperature | -40 to 150 °C |
| Tstg | Min/Max Storage Temperature | -55 to 150 °C |
| Lead Temperature | (Soldering, 10secs) | 260°C |

Note: Stresses beyond those listed under “absolute maximum ratings” may cause permanent damage to the device. These are stress ratings only, functional operation of the device at these or any other conditions beyond those indicated under “recommended operating conditions” is not implied. Exposure to absolute maximum-rated conditions for extended periods may affect device reliability.



Marking Information



Y:Year Code
 WW:Week Code(01-52)
 ZZZ:Lot Code
 C:SOP8 Package
 P:Pb-free Package
 X:Character Code
 S:Internal Code(Optional)



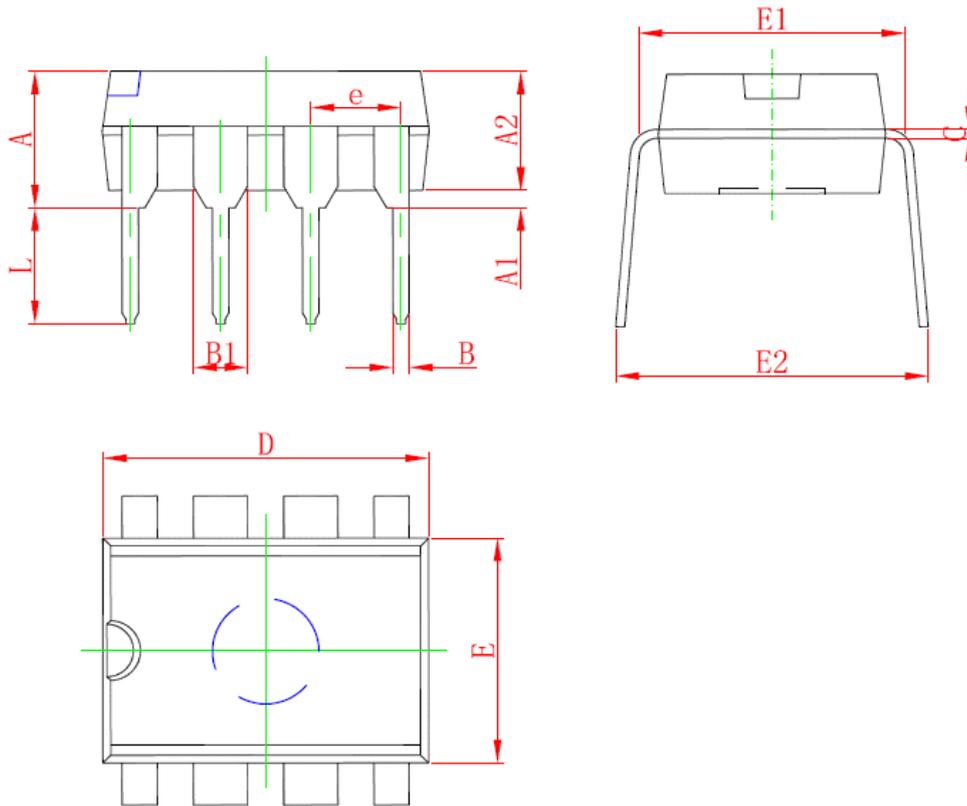
Y:Year Code
 WW:Week Code(01-52)
 ZZZ:Lot Code
 A:DIP8 Package
 P:Pb-free Package
 X:Character Code
 S:Internal Code(Optional)

TERMINAL DESCRIPTIONS

| Pin Num | Pin Name | I/O | Description |
|---------|----------|-----|--|
| 1 | INV | I | Inverting Input of Error Amplifier. Connected to Resistor Divider from System Output. This pin is also used for system open loop protection. |
| 2 | COMP | O | Output of Error Amplifier. A feedback compensation network is placed between COMP and the INV pin. |
| 3 | MULT | I | Input of Multiplier. Connected to Line Voltage after Bridge Diodes via A Resistor Divider to Provide Sinusoidal Reference Voltage to the Current Loop. |
| 4 | CS | I | Current Sense Input Pin. Connected to MOSFET Current Sensing Node. |
| 5 | ZCD | I | Zero Current Detection Input. When Activated, A New Switching Cycle Starts. If it is connected to GND, the device is disabled. |
| 6 | GND | P | Ground Pin |
| 7 | GD | O | Gate driver output. Drive Power MOSFET. |
| 8 | VCC | P | DC Supply Voltage. |

PACKAGE MECHANICAL DATA
8-Pin Plastic DIP

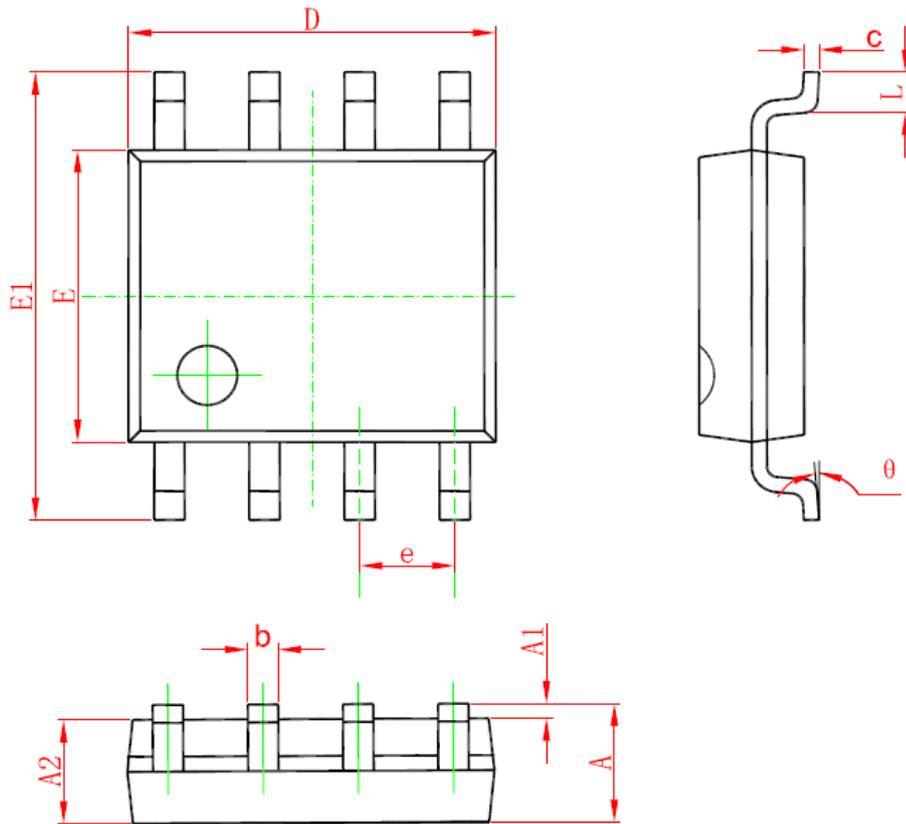
DIP8 PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|--------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 3.710 | 5.334 | 0.146 | 0.210 |
| A1 | 0.381 | | 0.015 | |
| A2 | 2.921 | 4.953 | 0.115 | 0.195 |
| B | 0.350 | 0.650 | 0.014 | 0.026 |
| B1 | 1.524 (BSC) | | 0.06 (BSC) | |
| C | 0.200 | 0.360 | 0.008 | 0.014 |
| D | 9.000 | 10.160 | 0.354 | 0.400 |
| E | 6.096 | 7.112 | 0.240 | 0.280 |
| E1 | 7.320 | 8.255 | 0.288 | 0.325 |
| e | 2.540 (BSC) | | 0.1 (BSC) | |
| L | 2.921 | 3.810 | 0.115 | 0.150 |
| E2 | 7.620 | 10.920 | 0.300 | 0.430 |

8-Pin Plastic SOP

SOP8 PACKAGE OUTLINE DIMENSIONS



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min | Max | Min | Max |
| A | 1.350 | 1.750 | 0.053 | 0.069 |
| A1 | 0.050 | 0.250 | 0.002 | 0.010 |
| A2 | 1.250 | 1.650 | 0.049 | 0.065 |
| b | 0.310 | 0.510 | 0.012 | 0.020 |
| c | 0.170 | 0.250 | 0.006 | 0.010 |
| D | 4.700 | 5.150 | 0.185 | 0.203 |
| E | 3.800 | 4.000 | 0.150 | 0.157 |
| E1 | 5.800 | 6.200 | 0.228 | 0.244 |
| e | 1.270 (BSC) | | 0.05 (BSC) | |
| L | 0.400 | 1.270 | 0.016 | 0.050 |
| θ | 0° | 8° | 0° | 8° |

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