

SN6505BDBVR Texas Instruments

XT-ShenZhen is China SN6505BDBVR Texas Instruments is designed and developed by Texas Instruments (TI). It is a battery management chip with very good performance, which can be applied to precise medical instruments. It is one of the electronic components that are currently in short supply on the market. You can buy XT-ShenZhen® products with confidence. We look forward to cooperating with you, if you want to know more, you can consult us now, we will reply you in time!

The SN6505BDBVR Texas Instruments is a low noise, low EMI push-pull transformer driver designed for small form factor isolated power supplies. It drives a flat, center-tapped transformer from a 2.25 V to 5 V DC supply. Ultra-low noise is achieved through slew rate control of the output switch voltage and spread spectrum clocking (SSC).

The SN6505BDBVR consists of an oscillator and a gate drive circuit that provides complementary output signals to drive a referenced N-channel power switch. The device includes two 1A power MOSFET switches to ensure startup under heavy loads. Switching clocks can also be provided externally for accurate placement of switching harmonics.

Protection features of the SN6505BDBVR include 1.7A current limit, undervoltage lockout, thermal shutdown, and break-before-make circuitry. The device also includes a soft-start feature that prevents high inrush currents during power-up using large load capacitors.

Product Features

- Push-pull drivers for transformers
- Wide input voltage range: 2.25V to 5.5V
- High output drive: 1A at 5V supply
- Low RON, 0.25Ω max at 4.5V supply
- Ultra-low EMI
- Spread Spectrum Clocking
- Precision internal oscillator options: 160kHz (SN6505A) and 420kHz (SN6505B)
- Synchronize multiple devices via external clock input
- Slew rate control
- 1.7A current limiting
- Low Shutdown Current: < 1μA
- Thermal shutdown
- Wide temperature range: -55°C to 125°C
- Small 6-pin SOT23(DBV) package
- Has soft-start to reduce inrush current

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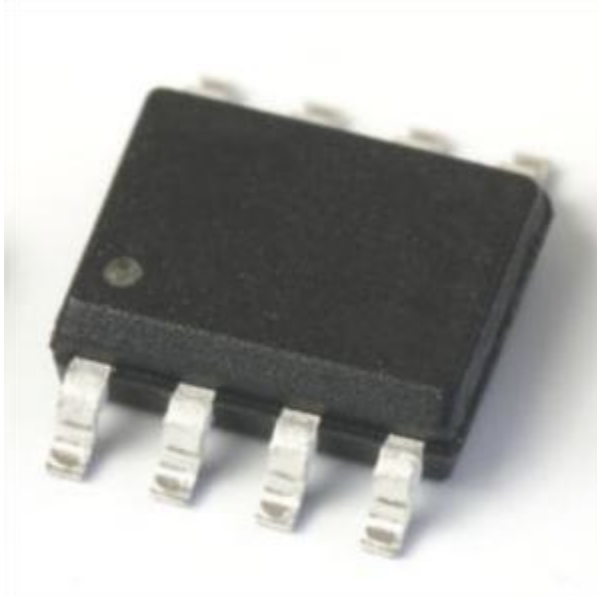
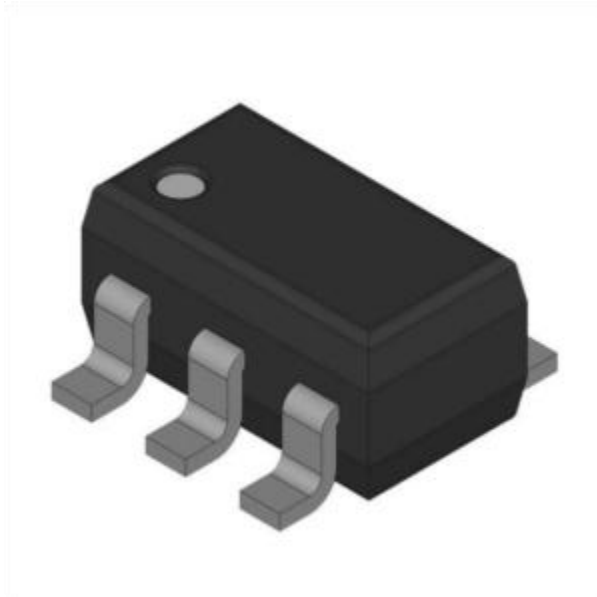
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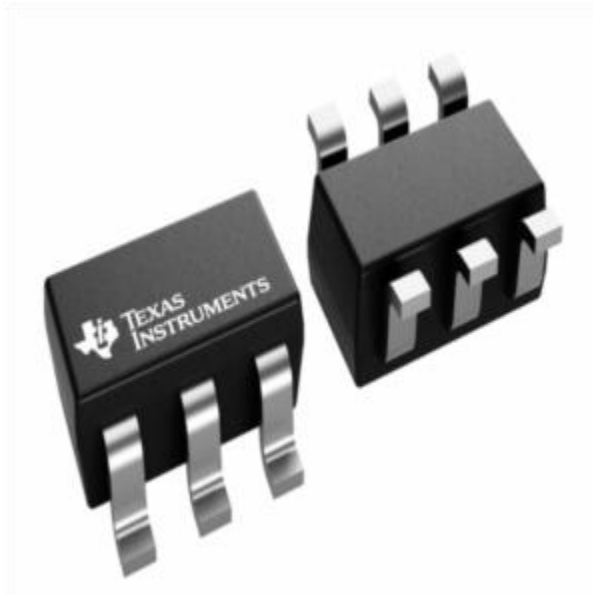
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Product parameters

| | | |
|---------------------|---------------------------|----------------|
| technical parameter | output voltage | 0V-1.6V |
| | Output current | 1A |
| | Supply current | 1.56mA |
| | On-off level | 42.4kHz |
| | Input voltage (Max) | 5.5V |
| | Input voltage (Min) | 2.2V |
| | Working temperature (Max) | 125°C |
| | Working temperature (Min) | -55°C |
| | Number of pins | 6 |
| | package | SOT-23-6 |
| | Packing | Tape&Reel (TR) |

Product Image





FAQ

Q: Are you a trader or a manufacturer?

A: Yes, we are traders. XC6SLX25-2FTG256C Xilinx we sell are purchased directly from the factory.

Q: What is your MOQ?

A: We will decide according to the product packaging method, and will communicate with you in time before placing an order.

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Q: Are your shipments fast?

A: Yes, we have our own warehouse, and most of the goods are in stock. Same-day delivery can be achieved as soon as possible.