

300

Description

The CAT6218 is a 300 mA CMOS low dropout regulator that provides fast response time during load current and line voltage changes.

The quick-start feature allows the use of an external bypass capacitor to reduce the overall output noise without affecting the turn-on time of just 150 μ s.

With zero shutdown current and low ground current of 55 μ A typical, the CAT6218 is ideal for battery-operated devices with supply voltages from 2.3 V to 5.5 V. An internal under voltage lockout circuit disables the output at supply voltages under 2.1 V typical.

The CAT6218 offers 1% initial accuracy and low dropout voltage, 180 mV typical at 300 mA. Stable operation is provided with a small value ceramic capacitor, reducing required board space and component cost.

Other features include fold-back current limit and thermal protection.

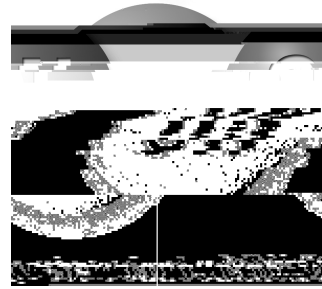
The device is available in the low profile (1 mm max height) 5-lead thin SOT23 package.

Features

- Guaranteed 300 mA Output Current
- Low Dropout Voltage of 180 mV Typical at 300 mA
- Stable with 1 μ F Ceramic Output Capacitor
- External 10 nF Bypass Capacitor for Low Noise
- Quick-start Feature
- No-load Ground Current of 55 μ A Typical
- Full-load Ground Current of 80 μ A Typical
- \pm 1.0% Initial Accuracy ($V_{OUT} \geq 2.0$ V)
- \pm 2.0% Accuracy Over Temperature ($V_{OUT} \geq 2.0$ V)
- “Zero” Current Shutdown Mode
- Fold-back Current Limit and Under-voltage Lockout
- Thermal Protection
- Thin SOT23-5 Package
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

Applications

- Cellular Phones
- Battery-powered Devices
- Consumer Electronics



<http://onsemi.com>



TSOT-23
TD SUFFIX
CASE 419AE

PIN CONNECTIONS

MARKING DIAGRAM

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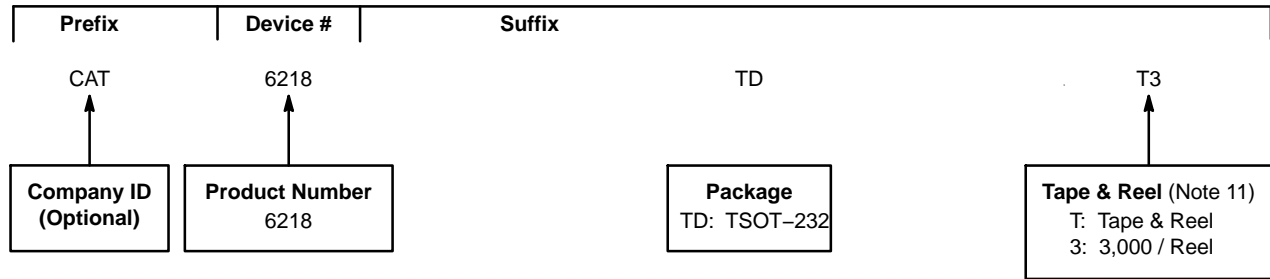
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CAT6218

Example of Ordering Information (Note 9)



OBSOLETE
THIS DEVICE IS OBSOLETE
PLEASE CONTACT YOUR ON SEMICONDUCTOR
REPRESENTATIVE FOR INFORMATION