RICOH

R5523N Series

USB high-side switch IC

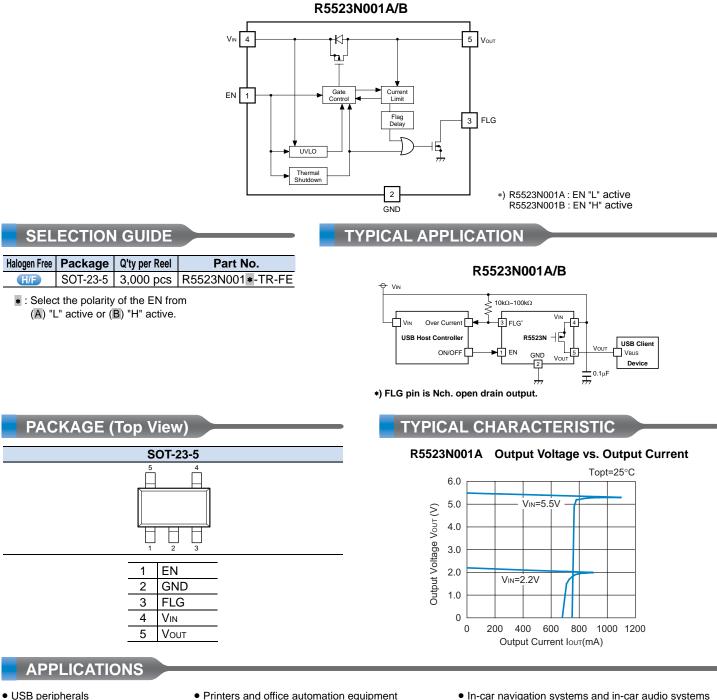
The R5523N Series are CMOS-based USB high side switch IC. R5523N is a protection IC used in power line of USB with built-in current limit circuit, thermal shutdown circuit, and under-voltage lockout circuit (UVLO). R5523N contains an internal delay circuit to prevent output of flag signal of false detection caused by inrush current. SOT-23-5 package is available, which is smaller than SOT-89-5 (R5520H)

FEATURES

- Supply Current (IDD1)------Typ. 20µA (Enabled)
- Supply Current (IDD2)------Typ. 0.1µA (Disabled)
- Input Voltage Range (VIN) ·······2.2V to 5.5V
- Switch ON Resistance (Ron)Typ. 130mΩ (VIN=5V, IOUT=500mA)
- UVLO Detect Voltage (VUVLO) Typ. 1.8V
- Current Limit ThresholdTyp. 1A

BLOCK DIAGRAM

- Short Current LimitTyp. 750mA
- Over Current Flag Delay------Typ. 10ms
- Soft Start Function
- Thermal Shutdown CircuitStops at 135°C
- Package-----SOT-23-5



- Personal computers
- · Printers and office automation equipment
- Video cameras

- · In-car navigation systems and in-car audio systems
- TVs and audio equipment

H/E

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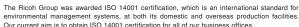
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RICOH COMPANY., LTD. Electronic Devices Company

Ricoh presented with the Japan Management Quality Award for 1999. Ricoh continually strives to promote customer satisfaction, and shares the achievements of its management quality improvement program with people and society.



Ricoh awarded ISO 14001 certification.





Ricoh completed the organization of the Lead-free production for all of our products. After Apr. 1, 2006, we will ship out the lead free products only. Thus, all products that will be shipped from now on comply with RoHS Directive.

http://www.ricoh.com/LSI/

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