

Power Distribution Switch

1. General Description

The FA7623 is a low $R_{DS(ON)}$, up to 3A low-loss power distribution switch with a fixed current limit to protect the power source from over current or short circuit conditions. The power switch is controlled by an on/off input (EN/ENb), which is capable of interfacing directly with low-voltage control signals. A 170Ω on-chip load resistor is added for output discharge when switch is turned off.

The FLAGb pin is an open-drain output that asserts (active low) when over-current or over-temperature event. The FLAGb signal remains asserted until the fault condition is removed and the device resumes normal operation. The FA7623 is designed to eliminate false fault reporting by using an internal deglitch circuit.

Features

- Typical 60mΩ On Resistance
- Input Voltage: 3.0V to 5.5V
- Support Active-High Enable EN or Active-Low Enable ENb
- Built-in Soft-Start
- Output Discharge when Switch Disabled
- True Reverse Blocking when Switch ON or OFF
- Output Over Current Protection
- Over Temperature Protection
- Fault Flag Output
- Halogen Free and Green Devices (RoHS Compliant)
- UL Listed File No. E501281 and CB certified

Ordering Information

P/N	Package	Enable	Output Current	Top Side Marking
FA7623AA5R	SOT23-5	Active High	1A	7623A YWZZ
FA7623BA5R	SOT23-5	Active Low	1A	7623B YWZZ
FA7623CA5R	SOT23-5	Active High	2A	7623C YWZZ
FA7623DA5R	SOT23-5	Active Low	2A	7623D YWZZ
FA7623EA5R	SOT23-5	Active High	2.5A	7623E YWZZ
FA7623FA5R	SOT23-5	Active Low	2.5A	7623F YWZZ
FA7623GMR	MSOP-8	Active High	2.5A	7623G YWZZ
FA7623HMR	MSOP-8	Active Low	2.5A	7623H YWZZ
FA7623IA5R	SOT23-5	Active High	1.5A	7623I YWZZ
FA7623JA5R	SOT23-5	Active Low	1.5A	7623J YWZZ
FA7623KA5R	TSOT23-5	Active High	3A	7623K YWZZ
FA7623LA5R	TSOT23-5	Active Low	3A	7623L YWZZ

※Topside Marking Rule:

Y : Year 2021→H、2022→I ◦

W : Week 01~26→A~Z、27~52→a~z、53→0 ◦

ZZ : Series Code ◦