

28V, Over-Voltage Protection Load Switch with Adjustable Current-Limit Control

1. General Description

The FA7616 is a low $R_{DS(ON)}$, 3A low loss power distribution switch with high output absolute rating of 28V. The programmable 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.

The FLAGb pin is an open drain output that asserts (active low) when over-current or over-voltage or over-temperature event. The FLAGb signal remains asserted until the fault condition is removed and the device resumes normal operation. The FA7616 is designed to eliminate false fault reporting by using an internal deglitch circuit.

Features

- Typical 35m Ω On Resistance
- 28V Absolute Ratings at VOUT
- Input Voltage: 2.5V to 5.5V
- Fixed or Programming Current Limit Threshold
- Support both Active-High Enable EN and Active-Low Enable ENb
- Output Discharge when Switch Disabled
- True Reverse Current Blocking when Switch ON or OFF
- 5.8V Output Over Voltage Protection
- Output Reverse Current Protection
- Over Temperature Protection
- Fault Flag Output for Over Current, Over Voltage, or Over Temperature Conditions
- UL Listed File No. E501281 and CB certified

Ordering Information

P/N	Package	Enable	Fast Discharge	Current Limit	Top Side Marking
FA7616AA6R	TSOT-23-6L	Active High	YES	Adjusted	7616A YWZZ
FA7616BA6R	TSOT-23-6L	Active Low	YES	Adjusted	7616B YWZZ
FA7616CA6R	TSOT-23-6L	Active High	NO	Adjusted	7616C YWZZ
FA7616DA6R	TSOT-23-6L	Active Low	NO	Adjusted	7616D YWZZ
FA7616EA5R	TSOT-23-5L	Active High	YES	Fixed	7616E YWZZ
FA7616FA5R	TSOT-23-5L	Active Low	YES	Fixed	7616F YWZZ
FA7616GA5R	TSOT-23-5L	Active High	NO	Fixed	7616G YWZZ
FA7616HA5R	TSOT-23-5L	Active Low	NO	Fixed	7616H YWZZ

※Topside Marking Rule:

Y : Year 2018→E、2019→F ◦

W : Week 01~26→A~Z、27~52→a~z、53→0 ◦

ZZ : Series Code ◦