Precision Load Switch with Adjustable Current Limit

DESCRIPTION

The ETA6021 is a load switch which provides full protection to systems and loads which may encounter large current conditions. ETA6021 offers a 95mΩ current-limited switch which can operate over an input voltage range of 2.5-5.5V. The current limit can be externally programmed by a precision resistor, ranges from 75mA to 1.7A. Switch control is by a logic input (EN) capable of interfacing directly with low voltage control signals. Current is prevented from flowing when the switch is off and the output voltage is higher than the input voltage. ETA6021 also features thermal shutdown protection which shuts off the switch to prevent damage to the part when a continuous over-current condition causes excessive heating. When the switch current reaches the current limit, the parts operate in a constant-current mode to prohibit excessive currents from causing damage. The ETA6021 will not turn off after a current limit fault, but will rather remain in the constant current mode indefinitely.

ETA6021 is housed in a tiny SOT23-5L package

APPLICATION

- USB ports/Hubs
- Hot Swaps
- Cellphones
- Tablet PC
- Set Top Box
- PC motherboard
- Handheld Devices

FEATURES

- Up to 1.5A Max Load current
- Accurate Current-limit threshold: +/-5%
- Programmable Current-limit : 75mA to 1.7A
- Fast Over-Current Response
- Reversed Current blocking
- Thermal Shutdown, UVLO protection
- Tiny SOT23-5L Package

ORDERING INFORMATION

PART	PACKAGE PIN	TOP MARK
ETA6021S2F-T	SOT23-5	BxYW Date Code Product Number

TYPICAL APPLICATION

