

ULTRA- LOW ON RESISTANCE, 6A LOAD SWITCH WITH CONTROLLED TURN-ON

FEATURES

- Integrated 6A Single Channel Load Switch
- Input Voltage Range: 0.8V to 5.5V
- Ultra-low ON-Resistance
 - $R_{ON} = 200m\Omega$ at $V_{IN}=5.5V$ ($V_{BIAS}=5.5V$)
 - $R_{ON} = 21m\Omega$ at $V_{IN}=1.8V$ ($V_{BIAS}=5V$)
- Low Threshold Control Input
- Adjustable Rise Time
- Quick Output Discharge Transistor
- ESD Level
 - 2KV for HBM and 10^4 for CDM
- Halogen Free Product

APPLICATIONS

- Telecom Systems
- Industrial Systems
- Set-Top-Box
- Consumer Electronics
- Notebooks / Netbooks

DESCRIPTION

The JTMA8937 is a small, ultra-low R_{ON} load switch with controlled turn on. It contains one N-channel MOSFET that can operate over an input voltage range of 0.8V to 5.5V and support maximum continuous current up to 6A. The switch is controlled by an on/off input (EN), which is capable of interfacing directly with low-voltage control signals. Additional features include a 300 Ω on-chip load resistor for output quick discharge when switch is turned off. In order to avoid inrush current, the rise time is adjustable by an external ceramic capacitor on the CT pin.

The JTMA8937 is available in an ultra-small, space saving 2mmx2mm 8-pin DFN package with thermal pad.

TYPICAL APPLICATION

