


Conv DC-DC 8V to 55V Step Down Single-Out 3.3V to 50V 2A 8-Pin PDIP Tube

Manufacturer:	STMicroelectronics, Inc
Package/Case:	DIP8
Product Type:	Power Management ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

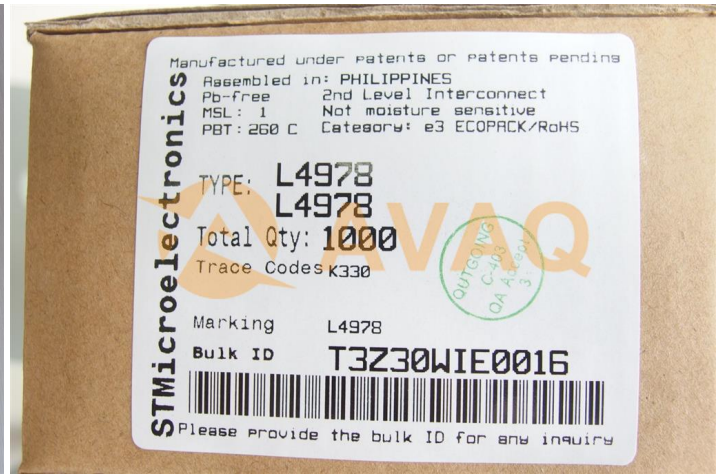
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General Description

The L4978 is a step down monolithic power switching regulator delivering 2A at a voltage between 3.3V and 50V (selected by a simple external divider). Realized in BCD mixed technology, the device uses an internal power D-MOS transistor (with a typical $R_{ds(on)}$ of 0.25 Ω) to obtain very high efficiency and high switching speed. A switching frequency up to 300KHz is achievable (the maximum power dissipation of the packages must be observed). A wide input voltage range between 8V to 55V and output voltages regulated from 3.3V to 50V cover the majority of today's applications. Features of this new generations of DC-DC converter include pulse-by-pulse current limit, hiccup mode for short circuit protection, voltage feedforward regulation, soft-start, protection against feedback loop disconnection, inhibit for zero current consumption and thermal shutdown. The device is available in plastic dual in line, DIP-8 for standard assembly, and SO16W for SMD assembly.

Key Features

- PROTECTION AGAINST FEEDBACK DISCONNECTION
- INHIBIT FOR ZERO CURRENT CONSUMPTION
- SOFT START FUNCTION
- THERMAL SHUTDOWN
- ZERO LOAD CURRENT OPERATION
- VOLTAGE FEEDFORWARD
- UP TO 2A STEP DOWN CONVERTER
- PRECISE 3.3V ($\pm 1\%$) INTERNAL REFERENCE VOLTAGE
- OPERATING INPUT VOLTAGE FROM 8V TO 55V
- SWITCHING FREQUENCY ADJUSTABLE UP TO 300KHz
- INTERNAL CURRENT LIMITING (PULSE-BYPULSE AND HICCUP MODE)
- OUTPUT VOLTAGE ADJUSTABLE FROM 3.3V TO 50V



Recommended For You

TL431CDT

STMicroelectronics, Inc
SOP8

L4974A

STMicroelectronics, Inc
DIP20

L4941BV

STMicroelectronics, Inc
TO220

L4995JTR

STMicroelectronics, Inc
HSSOP12

L4981AD

STMicroelectronics, Inc
SOP20

L4981AD013TR

STMicroelectronics, Inc
SOP20

L4981BD

STMicroelectronics, Inc
SOP20

L4931ABD33-TR

STMicroelectronics, Inc
SOP-8

L4979MD013TR

STMicroelectronics, Inc
SOP-20

TL431ACZ-AP

STMicroelectronics, Inc
TO-92

L4984D

STMicroelectronics, Inc
SSOP10

TL431ACZ

STMicroelectronics, Inc
TO-92

TL431AIZ

STMicroelectronics, Inc
TO-92

TL431CL3T

STMicroelectronics, Inc
SOT23

L4953G

STMicroelectronics, Inc
ZIP15