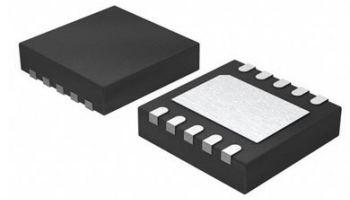


USB Charging Port Controller Single 5.5V 0.25A to 2.5A 8-Pin TDFN EP T/R



Images are for reference only

[Inquiry](#)

Manufacturer: [Maxim Integrated](#)

Package/Case: TDFN-8

Product Type: Switches

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

General Description

The MAX14575A/MAX14575AL/MAX14575B/MAX14575C programmable current-limit switches feature internal current limiting to prevent damage to host devices due to faulty load conditions. These current-limit switches feature a low 32mΩ (typ) on-resistance and operate from a +2.3V to +5.5V input-voltage range. The current limit is adjustable from 250mA to 2.5A, making these devices ideal for charging a large load capacitor, as well as for high-current load switching applications. Each device in the family handles an overcurrent event differently depending on the option selected. The MAX14575A/MAX14575AL feature an autoretry mode; the MAX14575A has active-high EN polarity, while the MAX14575AL has active-low EN polarity. The MAX14575B has latch-off mode, and the MAX14575C features a continuous current-limit mode. Additional safety features include thermal-shutdown protection to prevent overheating and reverse-current blocking to prevent current from being driven back into the source. The MAX14575A/MAX14575AL/MAX14575B/MAX14575C are available in a small 2mm x 2mm, 8-pin TDFN package and operate over the -40°C to +85°C extended temperature range.

Key Features

Integrated Protection Reduces Board Space and Makes Systems More Robust

Reverse-Current Protection

1μA (max) Shutdown Reverse Current

Short-Circuit Protection

Thermal Shutdown Protection

Low Power Dissipation Reduces Heat and/or Battery Consumption

130μA (typ) Low Supply Current

32mΩ (typ) Low R

ON

Flexible Part Can Easily Be Reused In Multiple Projects

Adjustable Current Limit (250mA to 2500mA)

Application

Data Modem Cards

Portable Media Players

RF Power Amplifier in Cell Phones

SDXC Card Power-Supply Protection

USB Ports

UTCA/ATCA Platforms

Recommended For You

MAX1636EAP

Maxim Integrated

SSOP20

MAX1758EAI+

Maxim Integrated

SSOP28

MAX1673ESA+

Maxim Integrated

SOP8

MAX1682EUK+T

Maxim Integrated

SOT23-5

MAX1720EUT+T

Maxim Integrated

SOT23-6

MAX845ESA+T

Maxim Integrated

SOP-8

MAX1681ESA+

Maxim Integrated

SOP-8

MAX17113EIL+

Maxim Integrated

QFN

MAX690CPA+

Maxim Integrated

DIP8

MAX690MJA

Maxim Integrated

CDIP8

MAX6107EUR+T

Maxim Integrated

SOT23-3

MAX5920BESA+

Maxim Integrated

SOP-8

MAX5922AEUI+

Maxim Integrated

TSSOP28

MAX5900ABETT+T

Maxim Integrated

TDFN-6

MAX5903LBEUT

Maxim Integrated

SOT23-6