

USB OTG Companion Device



Listing details

Reference Number: RF188848

Common

Price: \$ 1.10

Country: United States

Description:

USB OTG Companion Device 12-Pin DS-BGA T/R

Manufacturer Part #: TPD4S214YFFR

Alternate Part #: TPD4S214YFFR/BKN

The TPD4S214 is a single-chip protection solution for USB On-the-Go (OTG) and other current limited USB applications. This device includes an integrated low RDS(ON) N-channel current limited switch for the OTG current supply to peripheral devices.

TPD4S214 offers low capacitance transient voltage suppression (TVS) electrostatic discharge (ESD) clamping diodes for the D+, D-, and ID pins for both USB2.0 and USB3.0 applications.

Key Features

Input Voltage Protection at VBUS from -7 V to 30 V

IEC61000-4-2 Level 4 ESD Protection

±15-kV Contact Discharge

±15-kV Air Gap Discharge

IEC 61000-4-5 Surge Protection

7.8 A (8/20 μ s)

Low RDS(ON) N-CH FET Switch for High Efficiency

Compliant with USB2.0 and USB3.0 OTG spec

User Adjustable Current Limit From 250 mA to Beyond 1.2 A

Built-in Soft-start

Reverse Current Blocking

Over Voltage Lock Out for VBUS
Under Voltage Lock Out for VOTG_IN
Thermal Shutdown and Short Circuit Protection
Auto Retry on any Fault; No Latching Off States
Integrated VBUS Detection Circuit
Low Capacitance TVS ESD Clamp for USB2.0 High Speed Data Rate
Internal 16ms Startup Delay
Space Saving WCSP (12-YFF) Package
UL Listed and CB File No. E169910

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