



# New Product Announcement

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## AP4370

## Decoding IC Compatible with Qualcomm Quick Charge 2.0 Protocol

AP4370 is a decoding IC compatible with Qualcomm's high-voltage, dedicated charging port (HVDCP) quick charge (QC) 2.0 protocol.

It decodes the different combinations of D+/D- signals, generated by a portable device, into the related configurations of V1/V2. This can be used to change either the voltage reference or voltage feedback divider resistor for the controller IC, to achieve constant voltage/constant current control.

AP4370 has overvoltage discharge features to accelerate output voltage decline transition.

AP4370 automatically provides 5V output configuration for a connected portable device that is not compatible to Qualcomm QC 2.0 protocol.

AP4370 is in industry standard SOT26 package.



### The Diodes' Advantage

**AP4370 is a High-Performance, Cost-Effective QC 2.0 Decoding Solution for Cellphone Chargers.**

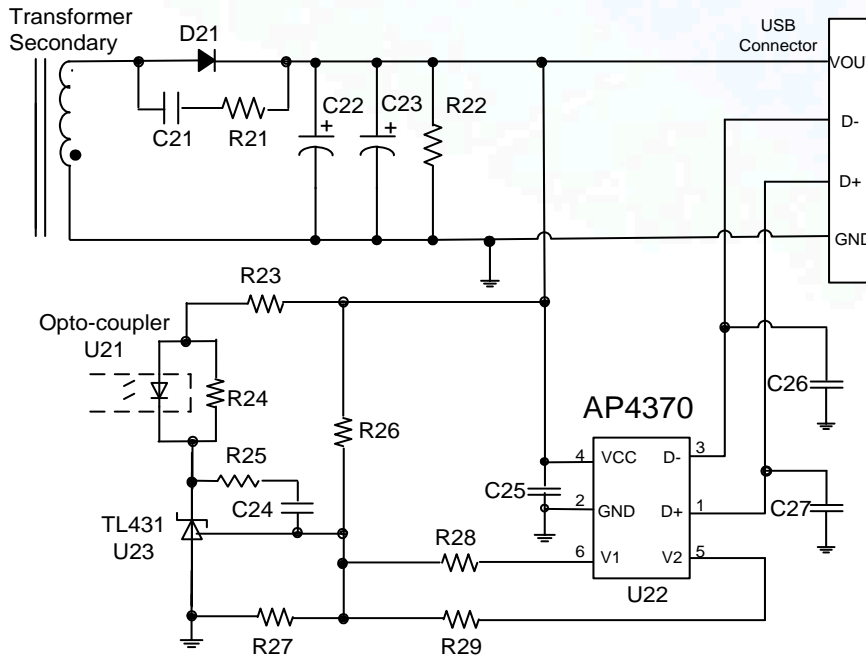
- **Compatible to Qualcomm Quick Charge (QC) 2.0 Protocol:**  
Decoding for 5V,9V,12V output voltage levels
- **Available in SOT26 Package Needing Less External Components**  
Saving BOM cost and layout size
- **Overvoltage Discharge Function**  
Accelerates output voltage decline transition

### Applications

- Chargers/Adapters

## Decoding IC Compatible with Qualcomm Quick Charge 2.0 Protocol

### Typical Application Schematic



### Diodes' Secondary Decoding Controller

Part Number	VCC MAX (V)	Operating Current (µA)	5V Overvoltage Discharge Point (V)	9V Overvoltage Discharge Point (V)	V1 Pin Output Turn-on Resistor (Ω)	V2 Output Turn-on Resistor (Ω)	Package Outline
AP4370KTR-G1	25	90	6.15	10.91	15	10	SOT26