The APX803L is a micropower voltage detector/microprocessor (µP) supervisory circuit, monitoring the power supplies in µP, µC and digital systems. It offers a wide range of detection voltage levels ranging from 1.2V to 5V in 100mV steps, fixed internally.

APX803L series has an extremely low, 1µA, supply current level which minimizes the power consumption in systems such as smart phones, battery-powered devices and internet equipment.

APX803L performs the supervisory functions by sending out a reset signal when the monitored VCC level falls below a chosen threshold. The reset signal remains active until VCC recovers to a level higher than the threshold.

It features an open-drain output with an active-low output pin and features several delay time options (0ms, 55ms, 220ms and 450ms) to suit system need.

The APX803L is available in SOT23, SC59, SOT323 and SOT25 packages.

The Diodes Advantage

- Low Supply Current: 1.0µA
  Minimal operating current for system efficiency

- Internally Fixed 1.2V to 5.0V Threshold in 0.1V Steps
  Wide range of applications and rails can be monitored

- High Threshold Voltage Accuracy: ± 1.5%
  Provides precise VCC reset thresholds

- RESET Output Active when Vcc ≥ 0.9V
  Prevents the µP/µC from incorrect operation at power-up

- Preset Recovery Delay Time Options:
  0ms, 55ms, 220ms and 450ms
  Meets different system requirements

- SOT23, SOT323, SOT25 and SC59 Packages
  Industry standard packages

Circuit Function
Announcement

New Product

**APX803L**

Typical Applications Circuit

Product Portfolio

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Detect Voltages (V)</th>
<th>Minimum Input Voltage (V)</th>
<th>Maximum Input Voltage (V)</th>
<th>Quiescent Current (µA)</th>
<th>Typical Time Delay (ms)</th>
<th>RESET Output (Active High)</th>
<th>RESET Output (Active Low)</th>
<th>MR</th>
<th>Watch Dog</th>
<th>Reset Output Topology</th>
<th>Operating Ambient Temperature Range (ºC)</th>
<th>Package Outlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>APX803L</td>
<td>1.2V to 5.0V with 0.1V Step</td>
<td>1.2</td>
<td>5.5</td>
<td>1</td>
<td>0, 55, 220, 450</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Open-Drain</td>
<td>-40 to 85</td>
<td>SOT23, SOT25, SOT323 SC59</td>
</tr>
</tbody>
</table>

Ordering Information

<table>
<thead>
<tr>
<th>Output Type</th>
<th>Reset Active Timeout Period</th>
<th>Voltage</th>
<th>Package</th>
<th>Packing</th>
</tr>
</thead>
</table>