

## Part# XBCM020105V Transient Voltage Suppressor (TVS) Diode

The XBCM020105V series is designed to protect components from ESD events with excellent clamping capability, low leakage and very fast response time all in a small footprint with die size of 20X10 mils (600X300 microns).

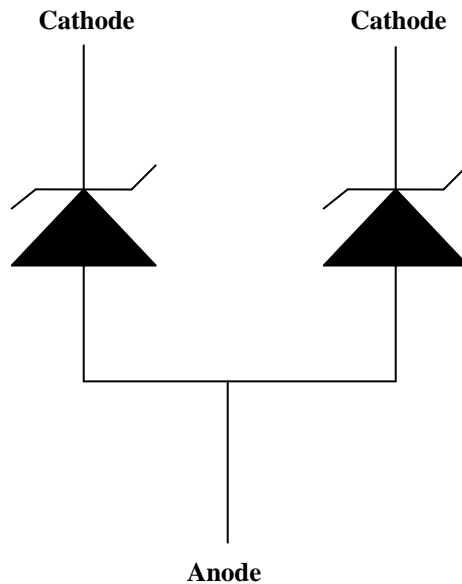
Because of its small size, it can be used in cellular phones, MP3 players and any other application that require extremely small size.

### Features:

- Two channels per die.
- Low clamping voltage.
- Low capacitance of 25pF.
- Bare die or Bumped die in addition to small body outline packages.
- Low leakage.
- Response time of <1nS.
- IEC61000-4-2 Level 4 ESD Protection.
- Lead Free in bumped or packaged formats.

### Circuit Schematic:

The following schematic represent one die with two TVS diodes.

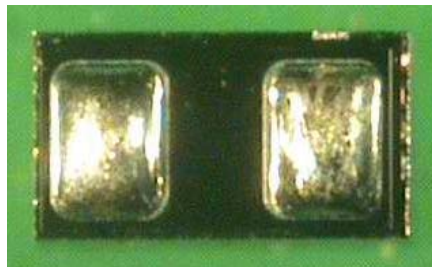


**Electrical Specs:**

<b>BiCMOS PART Number</b>	<b>V<sub>RWM</sub> (V)</b>	<b>BV min. (V)</b>	<b>I<sub>r</sub> max (uA)</b>	<b>Capcitanace (pf)</b>	<b>Channels</b>	<b>ESD Level</b>	<b>Package</b>
<b>XBCM020105V*</b>	<b>5</b>	<b>6</b>	<b>1</b>	<b>25</b>	<b>2</b>	<b>30KeV</b>	<b>SOT23-3, SC70-3, SOT23-5, SC70-5, SC70-6 &amp; die**</b>

\* Other special voltage ranges are available upon request.

\*\* Contact SiliconApps for packages available.



**XBCM020108V BUMPED DIE**

## Packaged die

