



Transistors & Diodes

Very low capacitance unidirectional quadruple ESD protection diode arrays in SOT891

Very low capacitance unidirectional quadruple ElectroStatic Discharge (ESD) protection diode arrays in a leadless ultra small SOT891 Surface-Mounted Device (SMD) plastic package designed to protect up to four unidirectional signal lines from the damage caused by ESD and other transients.

Key Benefits

- ESD protection of up to four lines and up to 15kV
- Very low diode capacitance, very low leakage current $IRM = 0.1 \mu A$ and low clamping voltage: $VCL = 9.5V$
- AEC-Q101 qualified
- IEC 61000-4-2; level 4 (ESD) and IEC 61000-4-5 (surge); $IPP = 2.7A$

Key Applications: Computers and peripherals / Audio and video equipment / Cellular handsets and accessories / Communication systems / Portable electronics / Subscriber Identity Module (SIM) card protection

PIP page: series http://www.nxp.com/pip/PESDXV4UK_SER.html

Availability

Samples: Now

Volume Production: Oct / 2010

Push to

Distribution: Yes

Low capacitance bidirectional ESD protection diode in SOD882D

This 2-pin plastic package is the industry's first leadless package with solderable, tin-plated side pads. It measures only 1.0 x 0.6 x 0.37 mm, and is ideal for small, thin devices. It comprise a low capacitance bidirectional ElectroStatic Discharge (ESD) protection diode designed to protect one signal line from the damage caused by ESD and other transients.

Key Benefits

- Bidirectional ESD protection of one line, up to 30kV
 - Ultra small SMD plastic package
 - Low diode capacitance, very low leakage current $IRM = 0.5 nA$ and low clamping voltage: $VCL = 14V$
 - AEC-Q101 qualified
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- IEC 61000-4-2; level 4 (ESD) and IEC 61000-4-5 (surge); IPP = 12A

Key Applications: Computers and peripherals / Audio and video equipment / Cellular handsets and accessories / Communication systems / Portable electronics / Subscriber Identity Module (SIM) card protection

PIP page: <http://standardproducts.nxp.com/pip/PESD5V0S1BLD.html>

Learn more: <http://www.nxp.com/infocus/topics/sod882d/>

Note:

- Three new ESD protection diodes (PESD5V0S1BLD, PESD5V0S1ULD, PESD24V0S1ULD) and the switching diode (BAS16LD) in SOD882D have been released
- The 1.05 pF and 11 pF ESD protection diodes (PESD5V0X1ULB, PESD5V0V1BLD) will be launched in December 2010

Availability

Samples: Now

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Distribution: Yes

100 V Schottky diodes in flat lead packages SOD123F (BAT46WH) and SOD323F (BAT46WJ)

Housed in the SOD123F and SOD323F -- our flat lead medium power SMD packages -- these new 100 V Schottky diodes are small enough for shrunk PCB designs and assure medium power capability comparable to bigger packages. They are an ideal solution for small and battery-driven handheld devices.

Key Benefits

- Low forward voltage V_F max of 850 mV @ $I_F=250$ mA
- High reverse voltage V_R max of 100 V
- Low leakage current I_R max of 9 μ A @100V, high $P_{tot}>700$ mW
- Small body size of 2.6 x 1.6 x 1.1 mm (SOD123F) and 1.7 x 1.25 x 0.73 mm (SOD323F)
- AEC-Q101 qualified

Key Applications: Ultra high-speed switching / Voltage clamping / reverse polarity protection

PIP page: SOD123F: <http://www.nxp.com/pip/BAT46WH.html> / SOD323F:

<http://www.nxp.com/pip/BAT46WJ.html>



Availability

Samples: Now

Volume Production: Oct / 2010

Push to

Distribution: Yes