

ESDSBULCXXVLBQ SERIES



Features

- **Ultra-Low Capacitance:** 0.45pF–0.55pF minimizes signal distortion for high-speed interfaces
- **IEC61000-4-2 Certified:** ±15kV air and contact discharge protection
- **IEC61000-4-5 Surge Protection:** Up to 4A (8/20μs) surge current capability
- **AEC-Q101 Qualified:** Designed for demanding automotive applications
- **Compact DFN1006-2 Package:** Space-saving protection for compact designs



Benefits

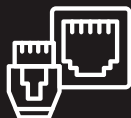
ESDSBULCxxVLBQ Series, a family of AEC-Q101 qualified ultra-low capacitance bidirectional ESD protection diodes designed to safeguard high-speed communication interfaces and sensitive electronic circuits from electrostatic discharge (ESD) events.

Ultra-low junction capacitance of 0.45pF. 3.3V, 18V, and 24V reverse working voltage options, the series supports both high-speed signal lines and DC power rail protection.

Applications



Consumer Electronics



Automotive



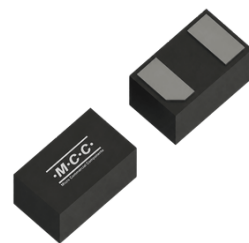
Computing & Networking

ULTRA-LOW CAPACITANCE ESD PROTECTION DIODES



**Protect High-Speed
Interfaces with 0.45pF
Ultra-Low Capacitance**

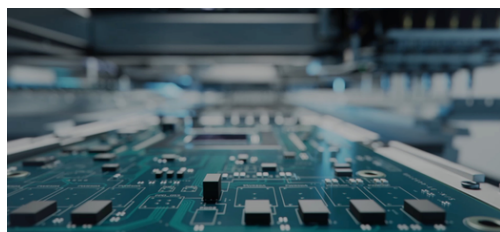
AEC-Q101 Ultra-Low Capacitance ESD Protection Diodes



Product Attributes, Parametrics & Datasheets

Product	Type	Package	Reverse Standoff Voltage VRWM (V)	Peak Pulse Current Ipp (A)	Capacitance Cj (typ) (pF)	Max. Clamping Voltage Vc (max) (V)	Reverse Leakage Current IR (μA)	Datasheet
ESDSBULC18VLBQ-TP	ESD Protection Device	DFN1006-2	18	4	0.45	9	0.05	Info
ESDSBULC24VLBQ-TP	ESD Protection Device	DFN1006-2	24	4	0.45	9	0.05	Info
ESDSBULC3V3LBQ-TP	ESD Protection Device	DFN1006-2	3.3	4	0.45	7	0.05	Info

Applications:



Consumer Electronics

- Wearable devices
- Smart home devices
- Gaming consoles



Automotive

- Automotive Ethernet interfaces
- USB charging ports
- Camera and display modules



Computing & Networking

- Ethernet ports
- Routers and gateways
- Servers and storage systems

CONTACT MCC TO REQUEST A SAMPLE

mccsemi.com | +818.701.4933

