

## Product Overview

### ESD8351: Unidirectional SCR ESD Protection

For complete documentation, see the data sheet.

The ESD8351 Series is designed to protect high speed data lines from ESD. Ultra-low capacitance and low ESD clamping make this device an ideal solution for protecting voltage sensitive high speed data lines.

### Features

- Low Capacitance (0.55 pF Max, I/O to GND)
- Protection for the Following IEC Standards: IEC 6100042 (Level 4)
- Low ESD Clamping Voltage
- These Devices are PbFree, Halogen Free/BFR Free and are RoHS Compliant

### Applications

- USB 2.0
- eSATA

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Interface	Number of Lines	Direction	C Max (pF)	V <sub>(BR)</sub> Min (V)	V <sub>RWM</sub> Max (V)	I <sub>R</sub> Max (μA)	P <sub>PK</sub> Max (W)	Package Type
ESD8351HT1G	0.0336	Pb-free	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.05	-	SOD-323
		Halide free		eSATA 3.0						0.5		
		non AEC-Q and PPAP		USB 2.0								
ESD8351MUT5G	0.0879	Pb-free	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.05	-	X3DFN-2
		Halide free		eSATA 3.0						0.5		
		non AEC-Q and PPAP		USB 2.0								
ESD8351XV2T1G	0.0407	Pb-free	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.05	-	SOD-523-2
		Halide free		eSATA 3.0						0.5		
		non AEC-Q and PPAP		USB 2.0								
ESD8351XV2T5G	0.0743	Pb-free	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		Halide free		eSATA 3.0								
		non AEC-Q and PPAP		USB 2.0								
SZESD8351HT1G	0.0677	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-323
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								
SZESD8351XV2T1G	0.0645	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								
SZESD8351XV2T5G	0.0645	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								
SZESD8351XV2T5G	0.0645	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								
SZESD8351XV2T5G	0.0645	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								
SZESD8351XV2T5G	0.0645	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								
SZESD8351XV2T5G	0.0645	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								
SZESD8351XV2T5G	0.0645	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								
SZESD8351XV2T5G	0.0645	AEC Qualified	Active	eSATA 2.0	1	Unidirectional	0.55	5.5	3.3	0.5	-	SOD-523-2
		PPAP Capable		eSATA 3.0								
		Pb-free		USB 2.0								

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

