

## ESD5Z

# ESD Protection Diode, SOD-523

## Product Overview

For complete documentation, see the data sheet.

The ESD5Z Series is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, portable devices, digital cameras, power supplies and many other portable applications.

## Features

- IEC61000-4-2 up to +/- 30 kV contact
- 8x20 us pulse up to 240W
- SZ Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements
- AEC-Q101 Qualified and PPAP Capable

## Applications

- General ESD protection for handheld devices
- TVS protection for charger line and battery contacts in handheld products

## 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
ESD5Z12T1G	0.0271	Pb H	Active	General I/O	1	Unidirectional	55	14.1	12	0.01	240	SOD-523-2
ESD5Z12T5G	0.0271	Pb H	Active	General I/O	1	Unidirectional	55	14.1	12	0.01	240	SOD-523-2
ESD5Z2.5T1G	0.0271	Pb H	Active	General I/O	1	Unidirectional	145	4	2.5	6	120	SOD-523-2
ESD5Z2.5T5G	0.0271	Pb H	Active	General I/O	1	Unidirectional	145	4	2.5	6	120	SOD-523-2
ESD5Z3.3T1G	0.0271	Pb H	Active	General I/O	1	Unidirectional	105	5	3.3	0.05	158	SOD-523-2
ESD5Z3.3T5G	0.0271	Pb H	Active	General I/O	1	Unidirectional	105	5	3.3	0.05	158	SOD-523-2
ESD5Z5.0T1G	0.0271	Pb H	Active	General I/O	1	Unidirectional	80	6.2	5	0.05	174	SOD-523-2
ESD5Z5.0T5G	0.0271	Pb H	Active	General I/O	1	Unidirectional	80	6.2	5	0.05	174	SOD-523-2
ESD5Z6.0T1G	0.0271	Pb H	Active	General I/O	1	Unidirectional	70	6.8	6	0.01	181	SOD-523-2
ESD5Z6.0T5G	0.0271	Pb H	Active	General I/O	1	Unidirectional	70	6.8	6	0.01	181	SOD-523-2
ESD5Z7.0T1G	0.024	Pb H	Active	General I/O	1	Unidirectional	65	7.5	7	0.01	200	SOD-523-2
ESD5Z7.0T5G	0.0441	Pb H	Active	General I/O	1	Unidirectional	65	7.5	7	0.01	200	SOD-523-2
SZESD5Z12T1G	0.0513	A Pb P H	Active	General I/O	1	Unidirectional	55	14.1	12	0.01	240	SOD-523-2
SZESD5Z12T5G	0.0513	A Pb P H	Active	General I/O	1	Unidirectional	55	14.1	12	0.01	240	SOD-523-2
SZESD5Z2.5T5G	0.0513	A Pb P H	Active	General I/O	1	Unidirectional	145	4	2.5	6	120	SOD-523-2
SZESD5Z3.3T1G	0.0513	A Pb P H	Active	General I/O	1	Unidirectional	105	5	3.3	0.05	158	SOD-523-2
SZESD5Z5.0T1G	0.0727	A Pb P H	Active	General I/O	1	Unidirectional	80	6.2	5	0.05	174	SOD-523-2
SZESD5Z5.0T5G	0.0727	A Pb P H	Active	General I/O	1	Unidirectional	80	6.2	5	0.05	174	SOD-523-2
SZESD5Z6.0T1G	0.0677	A Pb P H	Active	General I/O	1	Unidirectional	70	6.8	6	0.01	181	SOD-523-2
SZESD5Z6.0T5G	0.0677	A Pb P H	Active	General I/O	1	Unidirectional	70	6.8	6	0.01	181	SOD-523-2