

Ultra LOW CAPACITA NCE TVS ARRAY

Description

The ESD5Z5CL ESD protection diode is designed for portable applications such as cell phones, notebook computers, and PDA's. They feature large cross-sectional area junctions for conducting high transient currents, offer desirable electrical characteristics for board level protection, such as fast response time, lower operating voltage, lower clamping voltage and no device degradation

Features

- · Complies with the following standards
- IEC61000-4-2
- · Level 4 15 kV (air discharge)
- 8 kV(contact discharge)
- MIL STD 883E Method 3015-7 Class 3
- · 25 kV HBM (Human Body Model)
- · Unidirectional & Bidirectional Configuration
- Protects One Power or I/O Port
- Low Clamping Voltage
- Ultra Low Capacitance: 3pF (Typical)
- RoHS compliant package

Mechanical Data

- Molded JEDEC SOD-523 Package
- · Approximate Weight: 5 milligrams
- Lead-Free Pure-Tin Plating (Annealed)
- Solder Reflow Temperature: Pure-Tin Sn, 100:

260-270°C

- 8mm Tape and Reel Per EIA Standard 481
- Flammability Rating UL 94V-0

Applications:

- Ethernet 10/100/1000 Base T
- SMART Phones
- Handheld Wireless Systems
- USB Interface

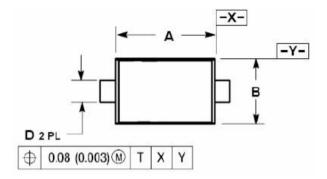
Packing & Order Information

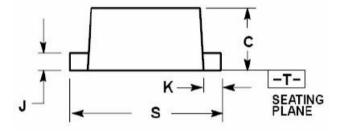
3,000/Reel



RoHS COMPLIANT

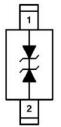






D!	Millimeters			INCHES			
Dim	MIN	NOM	MAX	MIN	NOM	MAX	
A	1.10	1.20	1.30	0.043	0.047	0.051	
В	0.70	0.80	0.90	0.028	0.032	0.035	
С	0.50	0.60	0.70	0.020	0.024	0.028	
D	0.25	0.30	0.35	0.010	0.012	0.014	
J	0.07	0.14	0.20	0.0028	0.0055	0.0079	
К	0.15	0.20	0.25	0.006	0.008	0.010	
S	1.50	1.60	1.70	0.059	0.063	0.067	

Graphic symbol





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MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Absolute ratings (limiting value)				
Symbol	Parameter	Value	Unit	
Ppk	Peak Pulse Power (tp = 8/20µs)	120	W	
Ipp	Peak Pulse Current (tp = 8/20µs)	12	А	
Tstg	Storage Temperature Range	-55 to +150	°C	
TL	Maximum lead temperature for soldering during 10s	260	°C	
TJ	Maximum junction temperature	-55 to +125	°C	

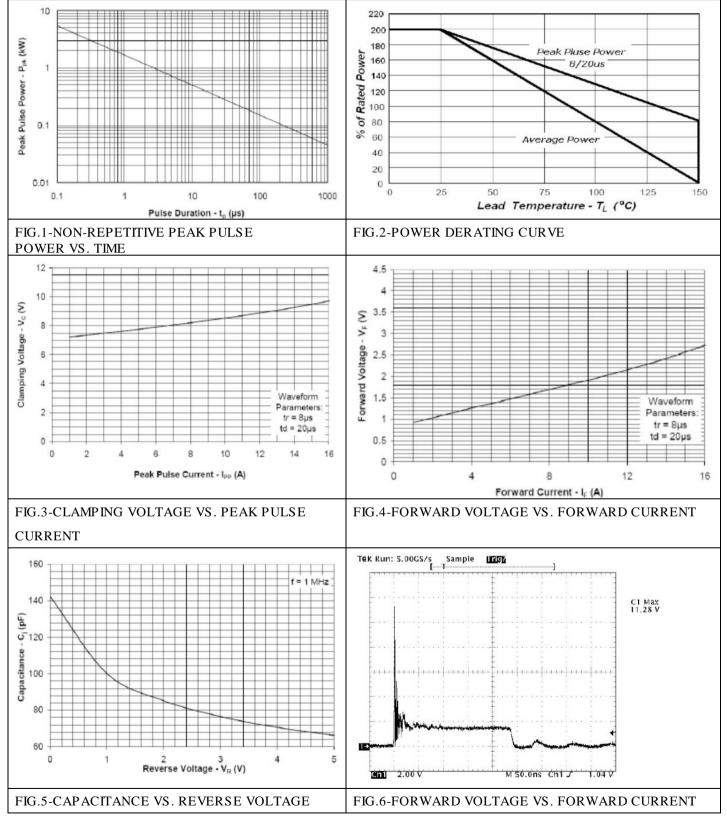
Electrical Character	ris tic s						
Part Numbers	VBR			IT		т	Cj
	Min.	Typ.	Max.	11	VRWM	IR	ТҮР
	V	V	V	mA	V	uA	PF
ESD5Z5CL	6.1	6.6	7.2	1	5.0	1	3

Symbol	Parameter	1 _{PP}
I _{PP}	Maximum Reverse Peak Pulse Current	
Vc	Clamping Voltage @ I _{PP}	
V _{RWM}	Working Peak Reverse ∀oltage	
I _R	Maximum Reverse Leakage Current @ V _{RWM}	IT IR VRWM VBRVC
Ι _Τ	Test Current	
V _{BR}	Breakdown Voltage @ I _T	 PP



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■Typical Characteristics





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