

LOW CAPACITA NCE TVS ARRAY

Description

The ESD5Z5C 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: 16pF (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

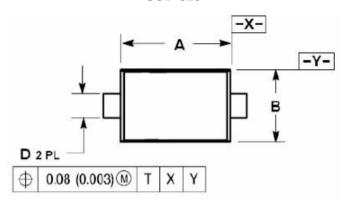
Packing & Order Information

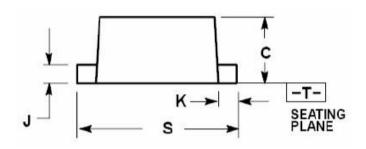
3,000/Reel



RoHS COMPLIANT

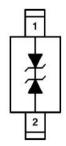
SOD-523





D:		Millimeters		INCHES			
Dim	MIN	NOM	MAX	MIN	NOM	MAX	
Α	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	
K	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





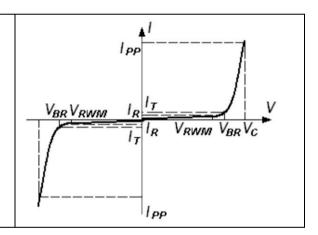
LOW CAPACITA NCE TVS ARRAY

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Absolute ratings (limiting value)				
Symbol	Parameter	Value	Unit	
Ppk	Peak Pulse Power (tp = 8/20μs)	120	W	
I_{PP}	Peak Pulse Current (tp = 8/20μs)	12	A	
Tstg	Storage Temperature Range	-55 to +150	°C	
$T_{ m L}$	Maximum lead temperature for soldering during 10s	260	°C	
TJ	Maximum junction temperature	-55 to +125	°C	

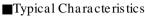
Electrical Character	ris tic s							
Part Numbers	VBR			IT	VD WM	m	Cj	I F
	Min.	Тур.	Max.	ľΤ	VRWM	IR	TYP	TYP
	V	V	V	m A	V	u A	PF	m A
ESD5Z5C	5.6	6.7	7.8	1	5.0	1	16	200

Symbol	Parameter			
I _{PP}	Maximum Reverse Peak Pulse Current			
Vc	Clamping Voltage @ I _{PP}			
V_{RWM}	Working Peak Reverse Voltage			
I _R	Les WORK MAIN SON 1995 B			
I _T				
V_{BR}				





LOW CAPACITA NCE TVS ARRAY



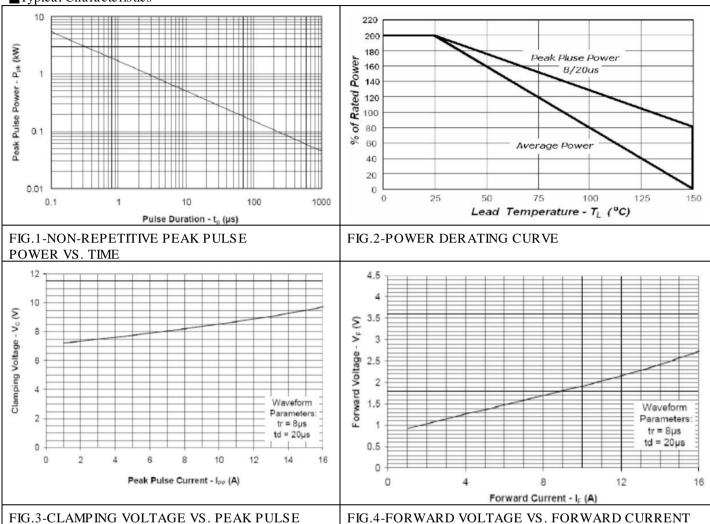


FIG.4-FORWARD VOLTAGE VS. FORWARD CURRENT



LOW CAPACITA NCE TVS ARRAY

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Bruckewell Technology Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Bruckewell"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product. Bruckewell makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Bruckewell disclaims

- (i) Any and all liability arising out of the application or use of any product.
- (ii) Any and all liability, including without limitation special, consequential or incidental damages.
- (iii) Any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Bruckewell's knowledge of typical requirements that are often placed on Bruckewell products in generic applications.

Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time.

Product specifications do not expand or otherwise modify Bruckewell's terms and conditions of purchase, including but not limited to the warranty expressed therein.