

Low Capacitance TVS Array

Description

The ESRV05-4 has been specifically designed to protect sensitive components which are connected to data and transmission lines from overvoltage caused by electrostatic dis-charge (ESD), electrical fast transients (EFT), and lightning.

The unique design of the series devices incorpo-rates eight surge rated, low capacitance steering diodes and a TVS diode in a single package. During transient conditions, the steering diodes direct the transient to either the positive side of the power supply line or to ground. The internal TVS diode prevents over-voltage on the power line, protecting any down-stream components.

Applications:

- · USB 2.0 Power and Data Line Protection
- Video Graphics Cards
- Monitors and Flat Panel Displays
- Digital Video Interface (DVI)
- 10/100/1000 Ethernet
- Notebook Computers SIM Ports
- · ATM Interfaces
- · IEEE 1394 Firewire Ports
- RoHS compliant package

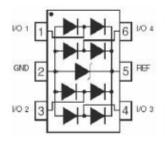
Packing & Order Information

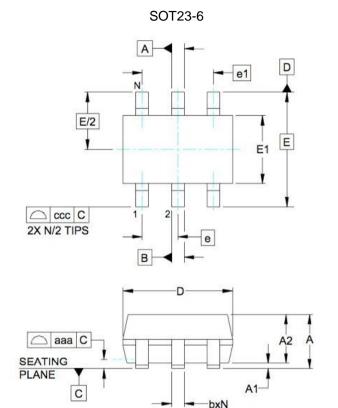
3,000/Reel

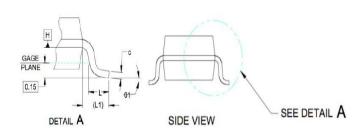


RoHS COMPLIANT

Graphic symbol







⊕ bbb∭ C A-B D

DIMENSIONS							
DIM	11	NCHE	S	MILLIMETERS			
	MIN	NOM	MAX	MIN	NOM	MAX	
Α	-	-	.043	-	-	1.10	
A1	.000	-	.004	0.00	-	0.10	
A2	.028	.035	.039	0.70	0.90	1.00	
b	.006	-	.012	0.15	-	0.30	
С	.003	-	.009	0.08	77-7	0.22	
D	.071	.079	.087	1.80	2.00	2.20	
E1	.045	.049	.053	1.15	1.25	1.35	
E	.083 BSC			2.10 BSC			
е	.026 BSC			0.65 BSC			
e1	.051			1.30 BSC			
L	.010	.014	.018	0.26	0.36	0.46	
L1	(.017)			(0.42)			
N	6			6			
01	0°	-	8°	0°) -	8°	
aaa	.004			0.10			
bbb	.004			0.10			
CCC	.012			0.30			



Low Capacitance TVS Array

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

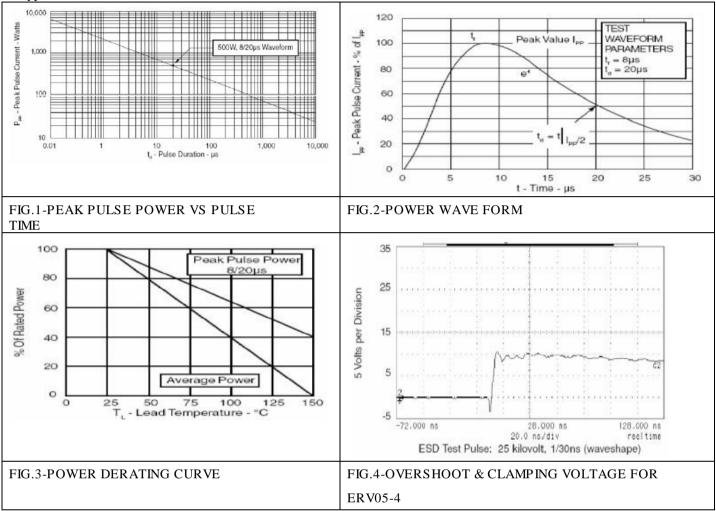
Maximum Ratings @25°C unless otherwise Specified					
Symbol	Parameter	Value	Unit		
Ppk	Peak Pulse Power (tp = 8/20µs) See Figure 1	500	W		
I_{PP}	Peak Pulse Current (tp = 8/20μs)	43	A		
T_{STG}	Storage Temperature Range	-55 to +150	°C		
TJ	Operating Temperature	-55 to +150	°C		
V _F	Forward Surge Rating (1/20 seconds @ 25°C, I _F =10 mA)	1.5	°C		

Electrical Characteristics									
Part Numbers	VBR			ΙΤ	VRWM	IR	Cj		
	Min.	Typ.	Max.	11	V K W WI	IK	TYP		
	V	V	V	m A	V	μA	PF		
ERV05-4	6.0	6.7	-	1	5.0	5	3.5		



Low Capacitance TVS Array

■Typical Device Characteristics





Low Capacitance 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.