

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





Graphic symbol







		DIN	IENSI	ONS			
DIM	11	NCHE	S	MILLIMETERS			
	MIN	NOM	MAX	MIN	NOM	MAX	
A	-	-	.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	-	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			



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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		
Ipp	Peak Pulse Current (tp = 8/20µs)	43	А		
T _{STG}	Storage Temperature Range	-55 to +150	°C		
TJ	Operating Temperature	-55 to +150	°C		
VF	Forward Surge Rating (1/20 seconds @ 25°C, I _F =10 mA)	1.5	°C		

Electrical Characteristics								
Part Numbers	VBR			ľT		TD	Сј	
	Min.	Typ.	Max.	11	V K VV IVI	IK	ТҮР	
	V	V	V	mA	V	μA	PF	
ERV05-4	6.0	6.7	-	1	5.0	5	3.5	



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■Typical Device Characteristics





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