FEATURED PRODUCT

Good-Ark Semiconductor GSCLAMP0524PE

Ultra-low Capacitance, Low Leakage, Fast Response, Quad TVS Array in DFN2510 Package

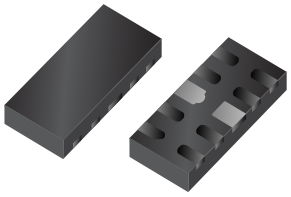
Good-Ark Semiconductor introduces the GSCLAMP0524PE, an ultra-low capacitance 4-line TVS array that offers a typical line-to-line capacitance of 0.2pF between I/O pins. This device is specifically designed to protect sensitive components connected to high-speed data and transmission lines from over-voltage caused by ESD (electrostatic discharge), CDE (cable discharge events), and EFT (electrical fast transients). Packaged in the DFN2510, GSCLAMP0524PE provides a greater signal integrity making it ideal for use in HDMI ports, DVI interface and MDDI applications in mobile computing devices.

FEATURES

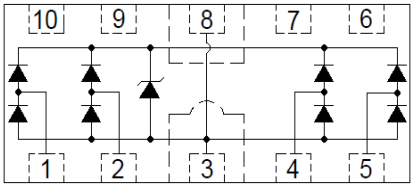
- Ultra low capacitance
- Low leakage current
- Low clamping voltage
- Lead free, RoHS compliant and Halogen Free
- Transient protection to:
  - IEC 61000-4-2(ESD) ±25 KV(air), ±25KV(contact)
  - IEC 61000-4-5(Lightning) 7A (8/20μs)

APPLICATIONS

- High-Definition Multimedia Interface (HDMI)
- USB 3.0
- Displays Digital Visual Interface (DVI)
- IEEE 1394 Firewire Ports
- Monitors and Flat Panel Displays
- Gigabit Ethernet
- LVDS



Case: DFN2510



Schematic Diagram

Free samples available for immediate testing.
Contact us at: (+1) 631-319-1858 or
inquiry@goodarksemi.com

KEY SPECIFICATIONS

	Maximum Ratings (T_A = 25°C)					Electrical Characteristics: (T_A = 25° C unless otherwise noted)					
GSCLAMP0524PE	P_{PK} (8x20μs)	V_{ESD} (Air) (Contact)	Maximum Reverse Stand-off Voltage V_{RWM}	Breakdown Voltage V_{BR} @ I_T		Test Current I_T	Maximum Reverse Leakage Current I_R @ V_{RWM}	Typical Clamping Voltage V_C @ I_{PP}	Peak Pulse Current (8x20μs) I_{PP}	Typical Junction Capacitance @ 0V, 1.0MHz C_J	
	Max (W)	Max (kV)	(V)	Min (V)	Max (V)	(mA)	(μA)	(V)	(A)	I/O to I/O (pF)	I/O to GND (pF)
	180	25	5.0	6.0	8.5	1.0	1.0	15	7.0	0.2	0.4

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