



SEMTECH PROTECTION

SHIELD PROTECTION – November 2020

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SHIELD PROTECTION products are TVS solutions optimized to specific data interfaces.



The Shield series of TVS devices have been tested to safeguard the latest silicon transceivers for their respective interfaces and enable system EMC design for faster time to market



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HDMI SHIELD



Semtech TVS Device	V _{rw} m	Transient Thresholds	C _j	Device configuration & dimensions
RClamp0524PA	5V	IEC 61000-4-2 (ESD) $\pm 17\text{kV}$ (Air), $\pm 12\text{kV}$ (Contact) IEC 61000-4-5 (Surge) 5A (8/20 μs)	0.3pF	Pkg dimensions: 2.5 x 1.0 x 0.4mm 
RClamp0564P	5V	IEC 61000-4-2 (ESD) $\pm 15\text{kV}$ (Air), $\pm 10\text{kV}$ (Contact) IEC 61000-4-5 (Surge) 3A (8/20 μs)	0.17pF	Pkg dimensions: 2.0 x 1.0 x 0.5mm 
RClamp7524T	5V	IEC 61000-4-2 (ESD) $\pm 30\text{kV}$ (Air), $\pm 25\text{kV}$ (Contact) IEC 61000-4-5 (Surge) 5A (8/20 μs)	0.60pF	Pkg dimensions: 1.3 x 0.8 x 0.4mm 
RClamp7534P	5V	IEC 61000-4-2 (ESD) $\pm 25\text{kV}$ (Air), $\pm 20\text{kV}$ (Contact) IEC 61000-4-5 (Surge) 4A (8/20 μs)	0.19pF	Pkg dimensions: 2.0 x 1.0 x 0.5mm 

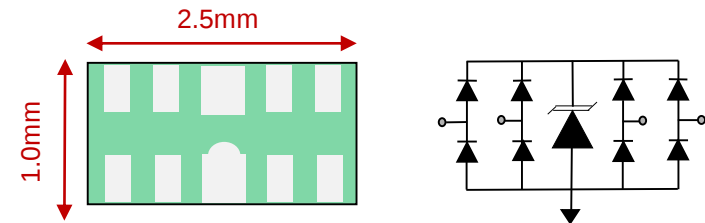
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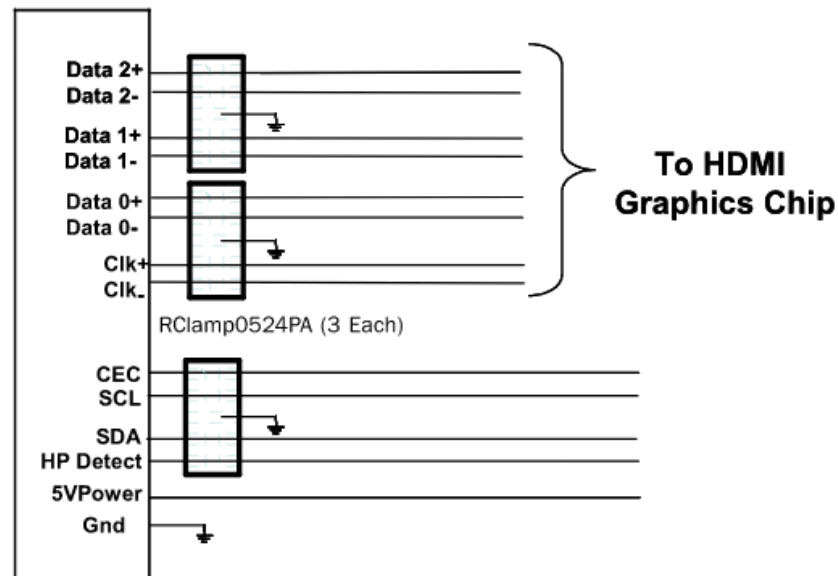


RCLAMP0524PA

- 5V Working Voltage
- 4-line protection
- ESD Immunity: $\pm 17\text{kV}$ (air)/ $\pm 12\text{kV}$ contact
- Low capacitance: 0.3pF
- Low-clamping voltage
- Flow-through 4-line package



RClamp0524PA



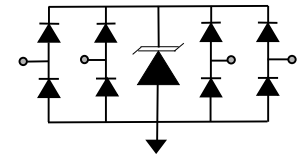
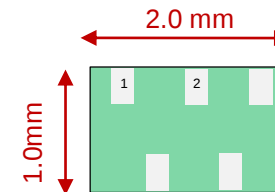
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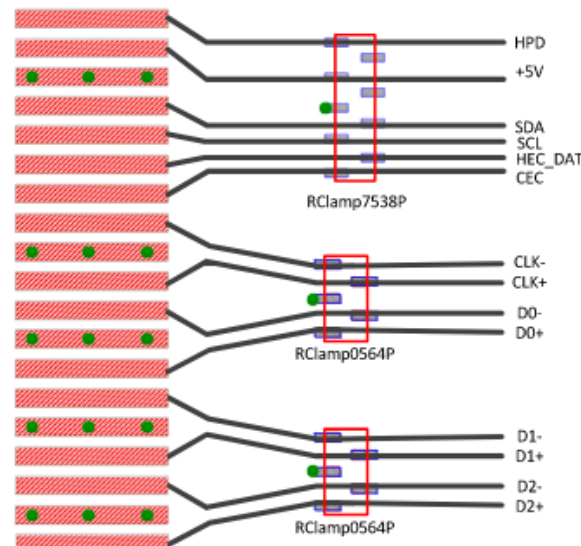
RCLAMP0564P

- 5V Working Voltage
- 4-line protection
- ESD Immunity: $\pm 15\text{kV}$ (air)/ $\pm 10\text{kV}$ contact
- Low capacitance: 0.17pF (typ)
- Low-clamping voltage
- Flow-through 4-line package



RClamp0564P

HDMI Type A Connector



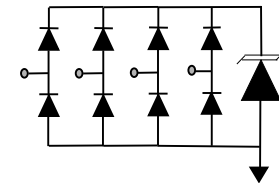
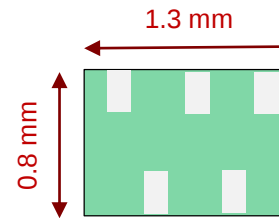
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RCLAMP7524T

- 5V Working Voltage
- 4-line protection
- ESD Immunity: $\pm 30\text{kV}$ (air)/ $\pm 25\text{kV}$ contact
- Low capacitance: 0.6pF
- Low-clamping voltage
- Flow-through package
- DFN Package: 1.3 x 0.8 x 0.4mm



RClamp7524T

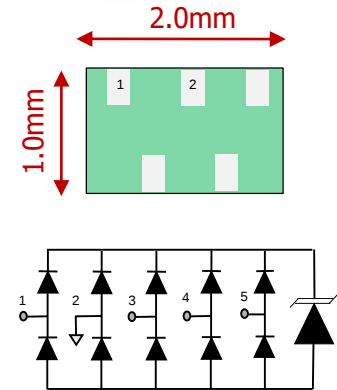
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RCLAMP7534P

- 5V Working Voltage
- 4-line protection
- ESD Immunity: $\pm 25\text{kV}$ (air)/ $\pm 20\text{kV}$ contact
- Low capacitance: 0.19pF
- Low-clamping voltage
- Flow-through package



RClamp7534P



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