



protection



Transient Voltage Suppressor Solutions

# TVS Solutions Selector Guide

Transient voltage protection to meet the industry's toughest requirements

[www.semtech.com/circuit-protection](http://www.semtech.com/circuit-protection)



# TVS Application Matrix

Semtech's protection products are industry-leading, advanced solutions for protecting sensitive circuitry from Electrostatic Discharge (ESD), Electrical Fast Transients (EFT), Lightning, Cable Discharge Events (CDE) and other electrical overstress. These solutions meet the industry's most rigid immunity standards, including:

- IEC 61000-4-2 (ESD)
- IEC 61000-4-4 (EFT)
- IEC 61000-4-5 (lightning)
- Telcordia GR-1089
- ITU K.20, K.21

## FEATURES


- Sub-5V solutions: 2.5V – 3.3V
- Ultra-low capacitance devices: <0.5pF
- Extremely low clamping voltage


- ESD protection + EMI/RFI filtering
- Single-line and multi-line protection
- Small package solutions, including Semtech's own leadless package
- High volume manufacturing
- Solid-state silicon-avalanche technology
- RoHS/WEEE Compliant

## APPLICATIONS

- Portable electronics
- Ethernet
- Set Top Box
- HDTV/Monitor interfaces
- Telecom/Datacom interfaces
- Servers/Desktop
- Notebooks/Tablets
- Automotive interfaces (AEC-Q100 qualified)
- Wearables

 = New Part     = AEC-Q100 qualified





Part Number	T-Carrier	xDSL	Antenna	Automotive (AEC-Q100)	10/100/1000 Ethernet	Proximity Sensor	Serial/Parallel Ports	LVDS	USB1.1/2.0/3.0/OTG	Multimedia Memory Port	Audio	Color LCD Display	Battery Contacts	Power Line	Keypad	Accessory Connector Kit	HDMI/DisplayPort	Analog Video
<b>EMI Clamp® - ESD + EMI Protection Devices</b>																		
 EClamp2357NQ				■						■								
EClamp2374K																		
EClamp2376K																		
EClamp2378K																		
EClamp2384K																		
EClamp2386K																		
EClamp2388K																		
EClamp2394P																		
EClamp2396P																		
EClamp2398P																		
EClamp2410P																		
EClamp2422N																		
EClamp2454P																		
EClamp2456P																		
EClamp2458P																		
EClamp2455K																		
EClamp2455P																		
EClamp2465T																		

Part Number	T-Carrier	xDSL	Antenna	Automotive (AEC-Q100)	10/100/1000 Ethernet	Proximity Sensor	Serial/Parallel Ports	LVDS	USB1.1/2.0/3.0/OTG	Multimedia Memory Port	Audio	Color LCD Display	Battery Contacts	Power Line	Keypad	Accessory Connector Kit	HDMI/DisplayPort	Analog Video
EClamp2515K																		
EClamp2522P																		
 EClamp2374KQ				■														
STF203-15																		
STF203-22																		
STF203-33																		

## TransClamp® - High-Power Surge TVS

TClamp0602N	■	■																
TClamp1202P																		
TClamp1272S			■															
TClamp2472S			■															
<b>TClamp2482S</b>			■															
TClamp2502N																		
<b>TClamp2512N</b>																		
TClamp3302N			■															
<b>TClamp3312N</b>																		
LC01-6	■																	
LC03-3.3	■																	
LC03-6	■	■																
LC04-6	■	■																
LC05-6	■																	
LC04-12	■	■																

## RailClamp® - Low capacitance TVS

RClamp0502A																		
 RClamp0582BQ																		
RClamp0582N																		
RClamp0504FA																		
RClamp0504N	■	■																
RClamp0504PA																		
RClamp0506T																		
 RClamp0512TQ																		
RClamp0521PA																		
RClamp0521Z																		
RClamp0524PA																		
 RClamp0524PQ																		
 RClamp0531TQ																		
RClamp0531Z																		
<b>RClamp0532T</b>																		
RClamp0534N																		
RClamp0542T																		
RClamp0544T																		
RClamp0551P																		
RClamp0552T																		
RClamp0554S	■																	

Transient Voltage Suppressors (TVS)

Part Number	T-Carrier	xDSL	Antenna	Automotive (AEC-Q100)	10/100/1000 Ethernet	Proximity Sensor	Serial/Parallel Ports	LVDS	USB 1.1/2.0/3.0/OTG	Multimedia Memory Port	Audio	Color LCD Display	Battery Contacts	Power Line	Keypad	Accessory Connector Kit	HDMI/DisplayPort	Analog Video
RClamp3324T					■				■								■	
RClamp3354S					■			■										
<b>RClamp0561Z</b>			■		■				■	■							■	
RClamp0584J								■									■	
RClamp0821P								■	■	■								■
RClamp0854P								■										
RClamp1255P								■										
RClamp1502B								■	■									
RClamp1521P								■	■	■								■
RClamp1654P								■										
<b>RClamp1851ZA</b>			■															
RClamp2402B								■	■									
RClamp2451ZA			■															
RClamp2502L	■				■													
RClamp2504N					■			■	■									■
RClamp2504P					■			■	■									■
RClamp2574N					■			■										
ⓈRClamp2574NQ				■	■			■										
ⓈRClamp3374N				■	■			■										
RClamp3304NA	■				■			■	■	■								■
RClamp3304P					■			■	■									■
RClamp3321P								■										
ⓈRClamp3324P				■	■			■	■	■								
RClamp3328P					■			■	■							■		
RClamp3331ZA								■	■									
ⓈRClamp3346P				■				■	■	■								
ⓈRClamp3352T				■				■	■									
RClamp3624T								■										
RClamp3654PA								■										
RClamp7522T								■									■	
RClamp7524T								■	■								■	
RClamp7528T								■	■	■		■					■	
RClamp7538P								■	■	■		■					■	
SR05		■				■		■										■
SR12		■																
SR2.8																		■
SR3.3									■									■
SR70	■	■																■
SRDA05-4	■							■										■
SRDA12-4		■																
SRDA3.3-4	■							■										■
SRV05-4	■				■		■	■										■

Part Number	T-Carrier	xDSL	Antenna	Automotive (AEC-Q100)	10/100/1000 Ethernet	Proximity Sensor	Serial/Parallel Ports	LVDS	USB 1.1/2.0/3.0/OTG	Multimedia Memory Port	Audio	Color LCD Display	Battery Contacts	Power Line	Keypad	Accessory Connector Kit	HDMI/DisplayPort	Analog Video
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**MicroClamp® - TVS Arrays**

ⓈμClamp0301PQ				■													■	
μClamp0501H								■						■	■	■	■	
μClamp0501P								■						■	■	■	■	
μClamp0501T								■						■	■	■	■	
μClamp0502P											■			■	■	■	■	
μClamp0502T								■						■	■	■	■	
<b>μClamp0561P</b>																		
<b>μClamp1061P</b>																		
<b>μClamp1261P</b>																		
<b>μClamp1561P</b>																		
<b>μClamp2461P</b>													■	■				
<b>μClamp3061P</b>																		
<b>μClamp3661P</b>																		
<b>μClamp4061P</b>																		
<b>μClamp6061P</b>																		
μClamp0504T														■	■	■	■	
μClamp0505T														■	■	■	■	
μClamp0506T														■	■	■	■	
μClamp0508T								■			■				■	■	■	
μClamp0504A								■									■	■
μClamp0505A								■			■						■	■
μClamp0511P													■	■	■	■	■	
μClamp0511T								■		■			■	■	■	■	■	
μClamp0511Z											■			■	■	■	■	
μClamp0524P								■									■	■
μClamp0541Z											■						■	■
μClamp1201H										■							■	■
μClamp1201P										■							■	■
μClamp1211P														■	■	■	■	
μClamp1211T												■		■	■	■	■	
μClamp1211Z														■	■	■	■	
μClamp2401T										■				■	■	■	■	
μClamp2501T											■						■	■
μClamp2511T																	■	■
μClamp2804L								■										
μClamp3301P										■				■	■	■	■	
ⓈμClamp3603T				■										■				
ⓈμClamp3601P				■		■								■				
μClamp3304A								■									■	■
μClamp3305P										■				■	■	■	■	
μClamp3306P										■				■	■	■	■	
μClamp3311P														■	■	■	■	
ⓈμClamp3311PQ				■	■												■	
μClamp3311T												■					■	■
μClamp3321ZA												■					■	■
μClamp3311Z												■					■	■
μClamp3324P										■							■	■
μClamp3381P										■								
μClamp5011ZA											■						■	■

**LCDA/SLVU Families - TVS Arrays**

LCDA12C-1																		
LCDA15C-1		■																
LCDA24C-1																		
ⓈSLVU2.8Q				■														■
SLVU2.8-4					■													
SLVU2.8-8					■													



Transient Voltage Suppressors (TVS)

TransClamp® – High-Power Surge TVS

Part Number	Description	Device Schematic	V <sub>RWM</sub> Max (V)	V <sub>BR</sub> Min (V)	C <sub>J</sub> Max (pF) L-L@ V <sub>R</sub> = 0V	Peak Power (W) (8/20µs)	Peak Power (W) (10/1000µs)	I <sub>PP</sub> (A) @ (10/1000µs)	I <sub>PP</sub> (A) @ (8/20µs)	I <sub>R</sub> Max (µA) @ V <sub>RWM</sub>	Package
TClamp0602N TClamp2502N TClamp3302N	2-line, low cap TVS for Ethernet and telecom interfaces		6 2.5 3.3	6.8 – –	12	2500 – –	–	–	95	5 0.5 1	SLP2626P10
TClamp1202P	Low cap TVS for RS-485 interfaces		12	13.3	12	–	300	12	100	0.1	SLP2020P5
TClamp1272S	Low cap TVS for xDSL interfaces		12	13.5	5	600	–	–	20	0.1	SOT-23 6L
<b>NEW</b> TClamp2512N TClamp3312N	2-line, low cap TVS for ethernet & telecom interfaces		2.5V 3.3V	2.7V 3.5V	8	–	–	–	120	0.1	SLP2626P10
TClamp2472S	Low cap TVS for xDSL interfaces		24	27	2	–	–	–	–	0.1	SOT-23 6L
<b>NEW</b> TClamp2482S	Low cap TVS for xDSL interfaces		24	27	2	150	–	–	20	0.1	SOT-23 6L
LC01-6	Low cap TVS for high-speed telecommunication systems		6	8	–	–	1500	100	–	25	SO-16W
LC03-3.3	2-line, low cap 3.3V TVS for high-speed interfaces		3.3	–	12	1800	–	–	100	1	SO-8
LC03-6	2-line, low cap TVS for high-speed data interfaces		6	6.8	12	2000	–	–	100	25	SO-8
LC04-6 LC05-6	Dual, low cap TVS Array for telecom linecard applications, protects 2 tip & ring line pairs		6	6.8	15	– 2000	1000 –	70 –	200 100	15	SO-16
LC04-12	Dual, low cap TVS array for telecom linecard applications, protects 2 tip & ring line pairs		12	13.3	15	600	600	25	100	2	SO-16

RailClamp® – Low Capacitance TVS									
Part Number	Description	Device Schematic	V <sub>RWM</sub> Max (V)	V <sub>BR</sub> Min (V)	C <sub>i</sub> Max (pF) L-L @ V <sub>r</sub> = 0V	Peak Power (W) (8/20µs)	I <sub>pp</sub> (A) @ (8/20µs)	I <sub>r</sub> Max (µA) @ V <sub>RWM</sub>	Package
RClamp0502A	2-line, ultra-low cap TVS Array		5	6	0.7	50	3	1	SC-89
RClamp0502BA RClamp1502B RClamp2402B	2-line protection, ultra-low cap TVS for ESD/CDE protection		5 15 24	6 16.7 26.7	0.9	125 200 200	5 5 4	1	SC-75
RClamp2451ZA	24V, 1-Line ESD protection		24	25.5	0.45	60	3	0.05	SLP0603P2X3
RClamp0504FA RClamp0504S RClamp0504N	4-line protection, low cap TVS Array		5	6	1.5 1.5 5*	150 150 300	6 6 12	3 3 5	SC-70 6L SOT-23 6L SLP2020P6
RClamp0504PA	4-line protection, low cap TVS array		5	6	1	150	6	3	SLP1616P6
RClamp0506T	6-line protection, ultra-low cap TVS for high speed applications		5	6.5	0.4	75	5	0.1	SLP3313P6T
RClamp0512TQ	5V, 2-line surge and ESD protection for high speed applications		5	6.5	2	-	-	0.1	SLP1006N3T
RClamp0521PA RClamp0821P RClamp1521P	Ultra-low cap, 1-line ESD protection		5 8 15	6 10 16.7	0.5	100 100 120	4	1	SLP1006P2
RClamp0521Z	Ultra small, 1-line ESD protection		5	6	0.5	100	4	0.1	SLP0603P2X3A
<b>NEW</b> RClamp3552T	2-line, low voltage, ESD protection		3.5	-	0.4	60	4	0.3	SLP0603P2X3
RClamp0522P	Protect 2 lines for high speed applications		5	6	0.4	150	5	1	SLP1610P4
RClamp0524PA RClamp0524PQ	Protect 4 lines for high speed applications		5	6 6.5	0.4	150 75	5	1 0.1	SLP2510P8
RClamp0531TQ	1-line protection, ultra-low cap TVS for automotive applications		5	6	0.8	80	4	0.1	SLP1006P2T
RClamp0531Z	Ultra small, 1-Line ESD protection		5	7	0.4	60	3	0.02	SLP0603P2X3

Transient Voltage Suppressors (TVS)

**RailClamp® – Low Capacitance TVS (Continued)**

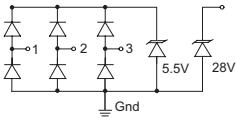
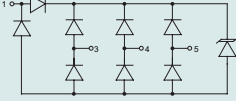
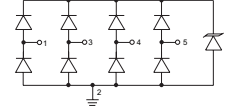
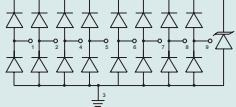
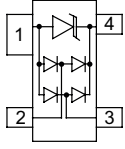
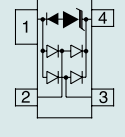
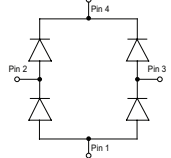
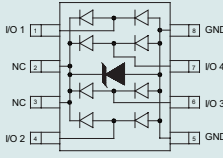
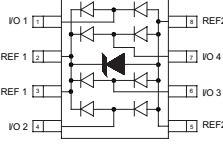
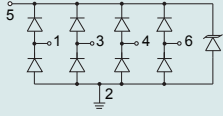
Part Number	Description	Device Schematic	V <sub>RWM</sub> Max (V)	V <sub>BR</sub> Min (V)	C <sub>i</sub> Max (pF) L-L @ V <sub>R</sub> = 0V	Peak Power (W) (8/20µs)	I <sub>PP</sub> (A) @ (8/20µs)	I <sub>R</sub> Max (µA) @ V <sub>RWM</sub>	Package
RClamp0534N	4-line protection, low cap TVS for high speed applications		5	6	3	500	25	0.5	SLP3020N10
RClamp0542T	Protect 2 lines for high speed applications		5	6.5	0.4	75	5	0.05	SLP1610P4T
RClamp0544T	Protect 4 lines for high speed applications		5	6.5	0.4	75	5	0.1	SLP2010P8T
RClamp0551P	Ultra-low cap, 1-line ESD protection		5	6	0.5	60	3	0.1	SLP1006P2
RClamp0552T	Ultra-low cap, 2-line ESD protection		5	6.5	0.4	60	3	0.02	SLP1006N3T
<b>NEW</b> RClamp0561Z	Ultra-low capacitance, 1-Line ESD protection		5	6.5	0.15	–	–	50	SGP0603P2X3
RClamp0554S	4 line protection, low cap TVS for high surge applications		5	6	5*	375	25	0.5	SOT-23 6L
RClamp0582B	2-line protection, ultra-low cap TVS for High Speed Applications		5	6	0.8	300	15	0.1	SC-75
RClamp0582BQ	2 line protection, ultra-low cap TVS for automotive applications		5	6	0.8	300	15	0.1	SC-75
RClamp0582N	2 data, 1 power line protection, ultra-low cap TVS for automotive applications		6.5	7	0.5	125	5	0.1	SLP1210N6
RClamp0584J	4-line protection, ultra-low cap for high speed applications		5	6.5	0.4	75	5	0.1	SLP2710P8
RClamp0854P	3 data line protection and 1 power line for USB charger and USB OTG		5.5	6.5	0.5	100	3	1	SLP1616P6
RClamp1654P	3 data line protection and 1 power line for USB charger and USB OTG		5.5	6.5	0.5	100	3	1	SLP1616P6

**RailClamp® – Low Capacitance TVS (Continued)**

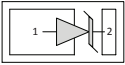

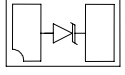
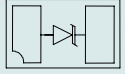
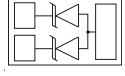
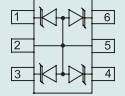
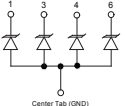
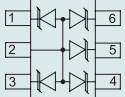
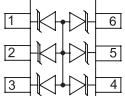
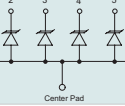
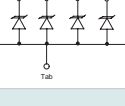
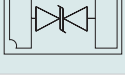
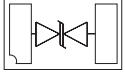
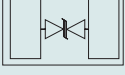
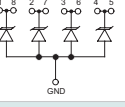
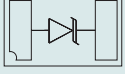
Part Number	Description	Device Schematic	V <sub>RWM</sub> Max (V)	V <sub>BR</sub> Min (V)	C <sub>i</sub> Max (pF) L-L @ V <sub>r</sub> = 0V	Peak Power (W) (8/20μs)	I <sub>pp</sub> (A) @ (8/20μs)	I <sub>r</sub> Max (μA) @ V <sub>RWM</sub>	Package
RClamp2502L	2.5V, flow-through TVS for gigabit and fast Ethernet protection		2.5	–	5	800	40	1	SO-8
RClamp2504N RClamp3304NA	4-line protection, low cap TVS array for Ethernet and telecom interfaces		2.5 3.3	–	5*	450	25	5	SLP2626P10
RClamp2504P RClamp3304P	4-line ultra-low cap TVS array		2.5 3.3	–	0.8*	80	5	0.5	SLP1616P6
RClamp2574NQ RClamp3374N	4-line protection, high power TVS for Ethernet interfaces		2.5 3.3	–	5*	1000	40	0.5	SLP3020N10
RClamp3321P	3.3V, 1-line ESD protection		3.3	5.5	0.35	25	3	0.05	SLP1006P2
RClamp3324P	3.3V, 4-line surge and ESD protection		3.3	–	0.4	–	4.5	0.05	SGP2510P8
RClamp3328P	3.3V, 8-line surge and ESD protection		3.3	–	0.4	75	5	0.1	SGP3810N9
RClamp3331ZA	3.3V, 1-line ESD protection		3.3	5.5	0.45	30	4	0.05	SLP0603P2X3
RClamp33346P	3.3V, 6-line ESD protection for high speed applications		3.3	–	0.4	–	4.5	0.05	SGP2708N7
RClamp3324T	3.3V, flow-through TVS for USB 3.0 interfaces		3.3	–	0.4	75	5	0.1	SLP1710P4T
RClamp33354S	4-line, 3.3V TVS for GbE interfaces		3.3	–	5*	400	25	0.5	SOT-23



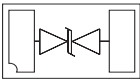
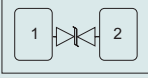
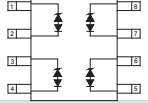
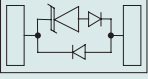
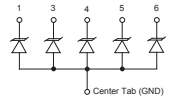
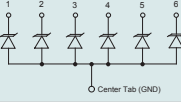
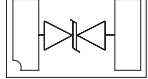
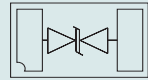
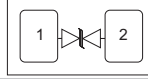
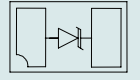
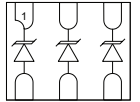
**RailClamp® – Low Capacitance TVS (Continued)**

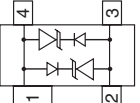
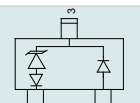
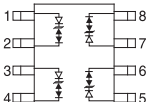
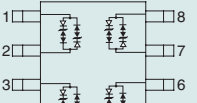
Part Number	Description	Device Schematic	V <sub>RWM</sub> Max (V)	V <sub>BR</sub> Min (V)	C <sub>J</sub> Max (pF) L-L @ V <sub>R</sub> = 0V	Peak Power (W) (8/20µs)	I <sub>PP</sub> (A) @ (8/20µs)	I <sub>R</sub> Max (µA) @ V <sub>RWM</sub>	Package
RClamp3654PA	3 data line protection and 1 power line for USB charger and USB OTG		5.5	6.5	0.5	100	3	1	SLP1616P6
RClamp7522T	2-line protection, ultra-low cap TVS for high speed applications		5	6.5	0.4	100	4	0.1	SLP1007N5T
RClamp7524T	4-line protection, ultra-low cap TVS for high speed applications		5	6.5	0.4	75	5	0.1	SLP1308N5T
RClamp7528T RClamp7538P	8-line protection, ultra-low cap TVS for high speed applications		5	6.5	0.4	75	5	0.1	SLP2611N9T SLP3810N9
SR05 SR12	2-line, low cap TVS diode array		5 12	6 13.3	10*	500 550	25 16	5 1	SOT-143
SR2.8 SR3.3	2-line, low cap TVS diode array		2.8 3.3	-	10*	200 150	14 10	1 1	SOT-143
SR70	2-line, low cap TVS diode array		70	85	10*	-	24	5	SOT-143
SRDA3.3-4	4-line, low capacitance TVS diode array		3.3	-	15*	500	25	1	SO-8
SRDA5-4 SRDA12-4	4-line, low capacitance TVS diode array		5 12	6 13.3	15*	500	25 20	10 1	SO-8
SRV05-4	4-line, low capacitance TVS diode array		5	6	5*	300	12	5	SOT-23 6L

Transient Voltage Suppressors (TVS)

MicroClamp® - TVS Arrays										
Part Number	Description	Device Schematic	V <sub>RWM</sub> Max (V)	V <sub>BR</sub> Min (V)	C <sub>J</sub> Max (pF) L-G @ V <sub>r</sub> = 0V	Peak Power (W) (8/20µs)	I <sub>PP</sub> (A) @ (8/20µs)	I <sub>r</sub> Max (µA) @ V <sub>RWM</sub>	Package	
<b>NEW</b> µClampxx61P	High power, 1-line ESD & surge protection		5-40	–	220 to 125	1200 to 1500	80-5	0.2	SLP1608P2	
µClamp0501H µClamp1201H	1-line ESD protection		5 12	6 13.3	160 60	240 200	16 8	5 1	SOD-523	
µClamp0301PQ µClamp0501P µClamp1201P	1-line ESD protection		5 12	6 13.3	160 60	200	16 8	5 1	SLP1006P2	
µClamp0501T µClamp2401T	1-line ESD protection		5 24	6 27	10 50	25 150	2 3	0.25	SLP1006P2T	
µClamp0502P µClamp0502T	2-line ESD protection		5	6	10	25	2	0.25	SLP1006P3 SLP1006P3T	
µClamp0504A µClamp3304A	4-line ESD protection array		5 3.3	6 –	75 30	100 40	7 5	1 0.5	SC-89	
µClamp0504T µClamp0505T µClamp0506T	4, 5, 6-line ESD protection		5	6	10	25	2	0.25	SLP1313P6T	
µClamp0505A	5-line ESD protection array		5	6	75	100	7	1	SC-89	
µClamp0506A	5-line ESD protection array		5	6	40	100	7	1	SC-89	
µClamp0506P	6-line ESD protection array		5	6	75	100	7	1	SLP1616P6	
µClamp0508T	8-line ESD protection		5	6	10	25	2	0.25	SLP1713P8T	
µClamp0511P µClamp1211P µClamp3311P	1-line ESD protection		5 12 3.3	6 13.3 –	75 25 15	170 200 90	12 7 5	1 1 0.5	SLP1006P2	
µClamp0511T	1-line ESD protection		5	6	7	–	2	0.05 (V <sub>r</sub> =3.3V)	SLP1006P2T	
µClamp0511Z µClamp0541Z µClamp3311Z µClamp1211Z	Ultra small, 1 line ESD protection		5 5 3.3 12	6 6 – 13.3	7 9 9 25	– 25 30 125	– 2 4 5	0.05	SLP0603P2X3	
µClamp0524P µClamp3324P	4-line, low voltage TVS for ESD protection		5 3.3	6 –	160 30	240 40	16 5	5 0.5	SLP2116P8	
µClamp2501T	1-line, 2.5V TVS for ESD protection		2.5	–	30	40	5	0.05	SLP1006P2T	

## Transient Voltage Suppressors (TVS)

MicroClamp® - TVS Arrays									
Part Number	Description	Device Schematic	$V_{RWM}$ Max (V)	$V_{BR}$ Min (V)	$C_j$ Max (pF) L-G @ $V_R = 0V$	Peak Power (W) (8/20 $\mu$ s)	$I_{PP}$ (A) @ (8/20 $\mu$ s)	$I_R$ Max ( $\mu$ A) @ $V_{RWM}$	Package
$\mu$ Clamp2511T $\mu$ Clamp3311T $\mu$ Clamp1211T	1-line ESD protection		2.5 3.3	- -	10 10	40 40	5 5	0.05	SLP1006P2T
$\mu$ Clamp3321ZA	1-Line ESD protection		3.3 5	5.5 6.5	0.45 5	30	4 2.5	0.05 0.02	SLP0603P2X3
$\mu$ Clamp2804L	4-line, 2.8V TVS array for Ethernet applications		2.8	-	-	100	10	0.05	SO-8
$\mu$ Clamp3301P	1-line, low voltage ESD/CDE protection		3.3	-	30	40	5	0.5	SLP1006P2
$\mu$ Clamp3305P	5-line, 3.3V TVS		3.3	-	25	40	5	0.5	SLP1616P6
$\mu$ Clamp3306P	6-line, 3.3V TVS		3.3	-	25	40	5	0.5	SLP1616P6
$\mu$ Clamp3311PQ	1-line, low voltage TVS for automotive applications		3.3	-	15	90	5	0.5	SLP1006P2
$\mu$ Clamp3381P	3.3V, 1-line ESD and surge protection		3.3	4.5	35	275	25	0.1	SGP1006N2
$\mu$ Clamp5011ZA	1-line ESD protection		5	6.5	5	30	2.5	0.02	SLP0603P2X3
$\mu$ Clamp3601P	1-line, 33V TVS for proximity switch input protection		33	36	25	170	-	1	SLP1006P2
$\mu$ Clamp3603T	3-line, 36V TVS for proximity switch protection		36	-	50	-	-	1	SLP1710N6T

LCDA/SLVU Families - TVS Arrays									
Part Number	Description	Device Schematic	$V_{RWM}$ Max (V)	$V_{BR}$ Min (V)	$C_j$ Max (pF) L-G @ $V_R = 0V$	Peak Power (W) (8/20 $\mu$ s)	$I_{PP}$ (A) @ (8/20 $\mu$ s)	$I_R$ Max ( $\mu$ A) @ $V_{RWM}$	Package
LCDA12C-1 LCDA15C-1 LCDA24C-1	1-line, low cap TVS diode array		12 15 24	13.3 16.7 26.7	15 15 10	500	-	5 5 1	SOT-143
SLVU2.8Q	1-line, 2.8V TVS for automotive applications		2.8	-	100	400	24	0.25	SOT-23
SLVU2.8-4	4-line, EPD TVS diode array for ESD and latch-up protection		2.8	-	-	400	24	1	SO-8
SLVU2.8-8	8-line EPD TVS diode array for ESD and latch-up protection		2.8	-	-	600	30	1	SO-8



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