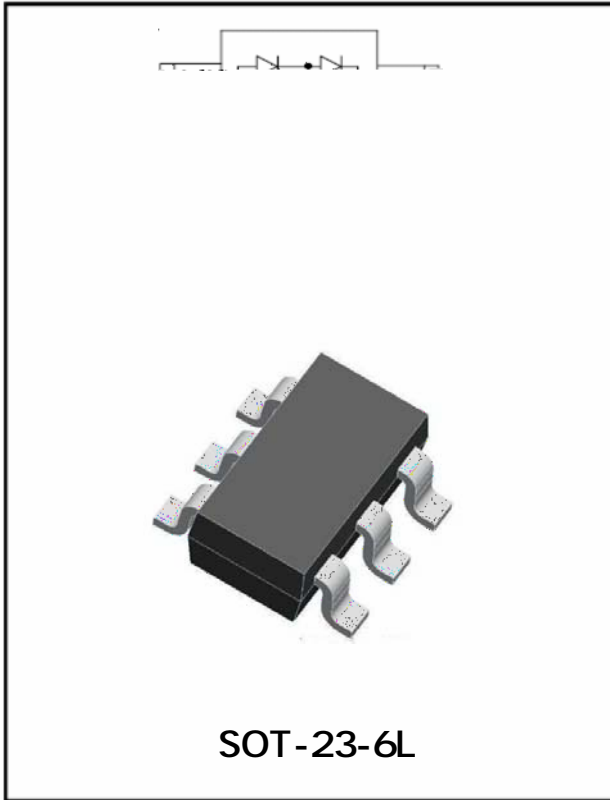


## 4-Line, Uni-directional, low Capacitance TVS Diode Array



### Features

- Stand-off voltage: 5V Max
- Transient protection for each line according to
  - IEC61000-4-2(ESD):  $\pm 30\text{kV}$  (contact)
  - IEC61000-4-5(surge): 16A (8/20 $\mu\text{s}$ )
- Ultra-low capacitance:  $C_J = 3\text{ pF}$  typ
- Low leakage current
- Low clamping voltage
- RoHS Compliant

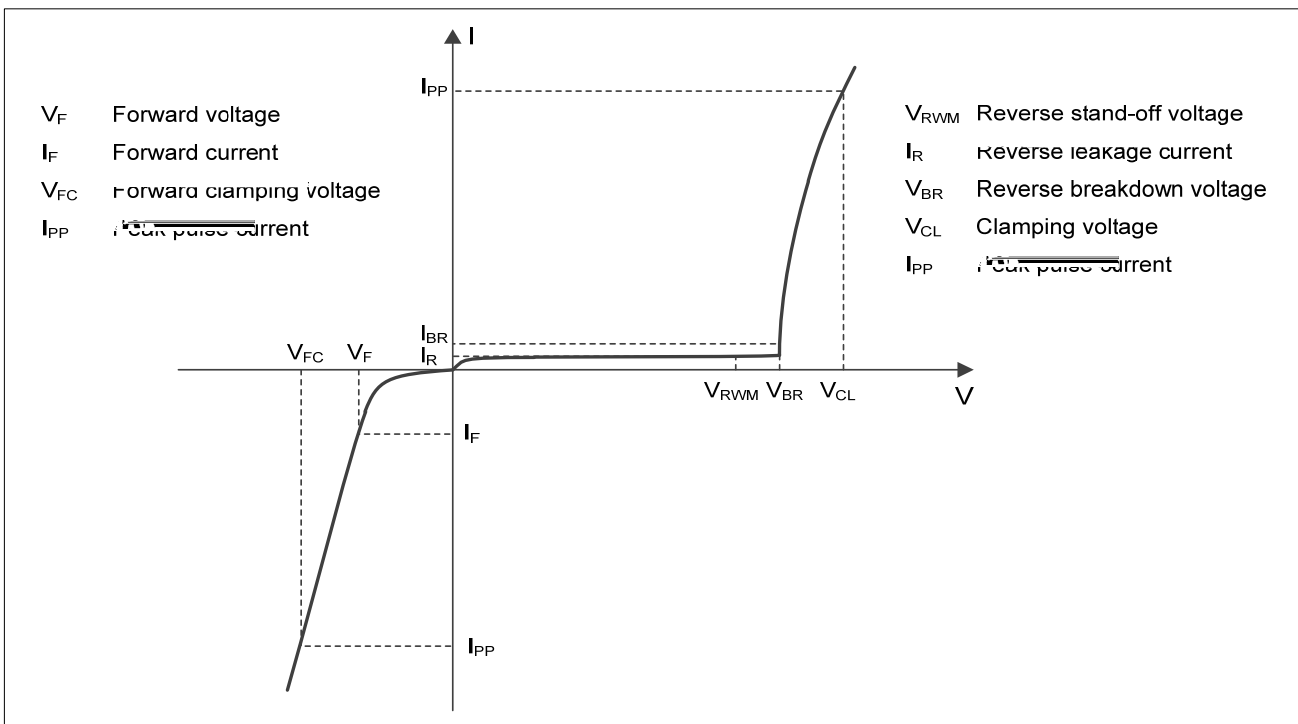
### Applications

- USB 2.0 power and data line
- Monitors and flat panel displays
- Set-top box and digital TV
- Digital visual interface (DVI)
- : Level 1 per J-STD-020

More Information: See Below



### Definitions of electrical characteristics





# SRV05-4L

## Absolute Maximum Ratings (Ta=25°C unless otherwise specified)

PARAMETER	SYMBOL	Rating	UNIT
Peak pulse power ( $t_p = 8/20\mu s$ )	$P_{pk}$	240	W
Peak pulse current ( $t_p = 8/20\mu s$ )	$I_{PP}$	16	A
ESD according to IEC61000-4-2 air discharge	$V_{ESD}$	$\pm 30$	KV
ESD according to IEC61000-4-2 contact discharge		$\pm 30$	KV
Junction temperature	$T_J$	-55~125	°C
Storage temperature	$T_{STG}$	-55~150	°C

## Electrical Characteristics Ta=25 Unless otherwise specified

PARAMETER	Symbol	UNIT	Conditions	Min	Typ	Max
Reverse maximum working voltage	$V_{RWM}$	V	Any I/O Pin to ground			5.0
Reverse leakage current	$I_R$	<del><math>\mu A</math></del>	$V_{RWM} = 5V$ , any I/O Pin to ground			0.5
Reverse breakdown voltage	$V_{BR}$	V	$I_{BR} = 1mA$ , any I/O pin to ground	6.0		
Forward voltage	$V_F$	V	$I_F = 15mA$ , ground to Pin 1,3,4,5,6			1.2
Clamping voltage <sup>3)</sup>	$V_{CL}$	V	$I_{PP} = 1A$ , $t_p = 8/20\mu s$ , any I/O pin to ground			12
		V	$I_{PP} = 16A$ , uT			

M

S -/



)LJ (6' FODPSLQJ , 2 WR \*1'  
N9 FRQWDFW GLVFKDUJH SHU ,(&

)LJ 7/3 0HDVXUHPHQW  
\$Q\ , 2 SLQ WR JURXQG

v627 / 3DFNDJH 2XWOLQH 'UDZLQJ



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