

## Features

- For Bi-Directional TVS Use
- Ultra Low Capacitance
- Ipp Max=4A (@8/20us)
- Stand-off Voltage:5

## Applications

- USB Ports
- Cellular Handsets & Accessories
- Digital Visual Interfaces(DVI)
- Display Port
- MDDI Ports

Item	Characteristics
Wafer size	6inch
Chip size	450 * 380 um
Top Metalization	Al-Si

## Maximum Ratings (Ta=25degC) (\*1)

Symbol	Parameter	Value	Units
Ppk	Peak Pulse Power (tp=8/20us) Between Cathode Pad(①-②)	66	W
	Cathode Pad(①or②)-Anode Pad(③)	76	W
Ipp	Maximum Peak Pulse Current(tp=8/20us) Between Cathode Pad(①-②)	3	A
	Cathode Pad(①or②)-Anode Pad(③)	4	A
Tstg	Storage Temperature Range	-55 to+150	Deg C
Tj	Maximum Junction Temperature	-55 to+125	Deg C
Vpp	Electrostatic Discharge IEC61000-4-2 Air Discharge (*2)	+/-15	kV
	IEC61000-4-2 Contact Discharge	+/-10	kV

(\*1)All Rating values for reference on a SOT-23 package configuration (front: Au wire 35um, back: Au eutectic), mounted on PCB of 1.5cm by 2.5cm.

(\*2) Reference only

## Electrical Characteristics (Ta=25degC)

■ Bi-Direction Use(\*1)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Reverse stand-off voltage	V <sub>RWM</sub>	-	-	5.0	V	
Leakage current	I <sub>R</sub>	-	-	1.0	uA	V <sub>RWM</sub> = 5V
Breakdown voltage	V <sub>BR</sub>	6.0	8.3	10.6	V	I <sub>R</sub> = 1mA
Capacitance	C	-	0.3	0.5	pF	V <sub>R</sub> = 0V, f = 1MHz
Clamping voltage1	V <sub>c</sub>	-	-	14	V	I <sub>pp</sub> =1A (tp=8/20us)
Clamping voltage 2	V <sub>c</sub>	-	-	22	V	I <sub>pp</sub> =3A (tp=8/20us)

■ Uni-Direction Use(\*1)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Reverse stand-off voltage	V <sub>RWM</sub>	-	-	5.0	V	
Leakage current	I <sub>R</sub>	-	-	1.0	uA	V <sub>RWM</sub> = 5V
Breakdown voltage	V <sub>BR</sub>	6.0	7.5	9.0	V	I <sub>R</sub> = 1mA
Capacitance	C	-	0.5	0.8	pF	V <sub>R</sub> = 0V, f = 1MHz
Clamping voltage1	V <sub>c</sub>	-	-	12	V	I <sub>pp</sub> =1A (tp=8/20us)
Clamping voltage 2	V <sub>c</sub>	-	-	19	V	I <sub>pp</sub> =4A (tp=8/20us)

(\*1)All Rating values for reference on a SOT-23 package configuration (front: Au wire 35um, back: Au eutectic).

## Note

1. Assembly

