

PHENITEC

SEMICONDUCTOR

RHP6V1S

Transient Voltage Suppressor

Features

- Suitable to small packages (SOT-353) Chip Size=0.71*0.40mm
- 5 Array TVS
- High ESD protection level
IEC61000-4-2(ESD) +/-15kV(Air) +/-8kV(Contact)

Applications

- Computers
- Printers
- Communication systems
- Cellular phones handsets and accessories
- Wireline and wireless telephone sets
- Set top boxes

Item	Characteristics
Wafer Size	5inch
Chip Size	710*400um

Maximum Ratings (Ta=25degC)

Symbol	Parameter	Value	Units
Ppk	Peak Power Dissipation @tp=8/20us (*1)	100	W
Ipp	Maximum Peak Pulse Current @tp=8/20us(*1)	8	A
Tstg	Storage Temperature Range	-40to+125	Deg C
Vpp	Electrostatic Discharge IEC61000-4-2 Air Discharge (*1) IEC61000-4-2 Contact Discharge (*1)	±15 ±8	kV kV

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

Electrical Characteristics (Ta=25degC)

Ratings at 25degC ambient temperature unless otherwise specified.

Parameter	Symbol	Min	Typ.	Max	Unit	Condition
Breakdown Voltage	V _{BR}	6.1	6.65	7.2	V	@1mA
Leakage Current	I _R	-	-	1.0	uA	@V _{rwm} = 3V
Forward Voltage	V _F	-	-	0.9	V	@10mA
		-	-	1.25	V	@200mA
Capacitance	C _j	-	50	-	pF	@0V, @1MHz
Clamping Voltage *1	V _c	-	-	9.8	V	@I _{pp} =5A
		-	-	12.5	V	@I _{pp} =8A

*1 Package=SOT-23 (front: Au wire 35um, back: Au eutectic) @tp=8/20us