

PHENITEC

SEMICONDUCTOR

RKP6V3Z

Transient Voltage Suppressor

Features

- Suitable to small packages (SOT-563) Chip Size=0.66*0.37mm
- 5 Array TVS
- High ESD protection level
IEC61000-4-2(ESD) +/-15kV(Air) +/-8kV(Contact)

Applications

- Hand held portable applications
- Serial and parallel ports
- Notebooks, Desktops, Servers

Item	Characteristics
Wafer size	5inch
Chip size	660*370um

Maximum Ratings (Ta=25degC)

Symbol	Parameter	Value	Units
Ppk	Peak Power Dissipation @=8/20us (*1)	90	W
Ipp	Maximum Peak Pulse Current @8/20us(*1)	8	A
Tj	Maximum Junction Temperature (*1)	150	Deg C
Tstg	Storage Temperature Range	-55to+150	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. VF=0.9V at IF=10mA

Parameter	Symbol	Min	Typ.	Max	Unit	Condition
Breakdown Voltage	VBR	6.3	6.9	7.5	V	@1mA
Leakage Current	IR	-	-	1.0	uA	@ 5V
Capacitance	C	-	46	-	pF	@0V @1MHz
Clamping Voltage *1	Vc	-	-	11.3	V	@Max Ipp @tp=8/20us

*1 Package=SOT-23 (front: Au wire 35um, back: Au eutectic)