

GESD5Z36

Transient Voltage Suppressors

DESCRIPTION

The GESD5Z36 is designed to protect voltage sensitive components from ESD and transient voltage events. Excellent clamping capability, low leakage, and fast response time, make these parts ideal for ESD protection on designs where board space is at a premium. Because of its small size, it is suited for use in cellular phones, portable devices, digital cameras, power supplies and many other portable applications.

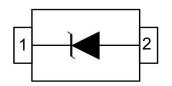
ORDERING INFORMATION

Device: GESD5Z36Package: SOD-523

♦ Marking: 5Y

→ Material: Halogen free→ Packing: Tape & Reel→ Quantity per reel: 3,000pcs

PIN CONFIGURATION



FEATURES

- ♦IEC61000-4-2 Level 4 ESD Protection
- ♦Protects one directional I/O line
- ♦Low clamping voltage
- ♦ Working voltages : 36V
- ♦Low leakage current

MACHANICAL DATA

- ♦SOD-523 package
- ♦ Flammability Rating: UL 94V-0
- ♦ Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260°C/10s
- ♦Reel size: 7 inch

APPLICATIONS

- ♦Microprocessor based equipment
- ♦Personal Digital Assistants (PDA's)
- ♦ Notebooks, Desktops, and Servers
- ♦Portable Instrumentation
- ♦Peripherals
- ♦Pagers

PACKAGE OUTLINE



ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V_{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±25 ±20	kV				
P _D	Total Power Dissipation on FR-5 Board (Note 1) @ Ta=25°C	150	mW				
T _{OPT}	Operating Temperature	-55~125	°C				
T _{STG}	Storage Temperature	-55~150	°C				



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ELECTRICAL CHARACTERISTICS (Tamb=25°C)								
Symbol	Parameter	Test Condition	Min	Тур	Max	Units		
V_{RWM}	Reverse Working Voltage				36	V		
V_{BR}	Reverse Breakdown Voltage	I _T = 1mA	40			V		
I _R	Reverse Leakage Current	V _{RWM} = 36V			5	μA		
V _C	Clamping Voltage	$I_{PP} = 1A, t_p = 8/20 \mu s$			55	V		
CJ	Junction Capacitance	$V_R = 0V$, $f = 1MHz$			28	pF		

