

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.

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

ORDERING INFORMATION

Device: GESD5Z36
Package: SOD-523
Marking: 5Y or ZS
Material: Halogen free
Packing: Tape & Reel
Quantity per reel: 3,000pcs

APPLICATIONS

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

PIN CONFIGURATION



PACKAGE OUTLINE



ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Unit					
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				

These ratings are limiting values above which the serviceability of the diode may be impaired. Note 1: FR-5=1.0x0.75x0.62 in.



GESD5Z36

Transient Voltage Suppressors

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		



