

DESCRIPTION

The PESD24VL1BA is designed for applications transient overvoltage protection requiring capability. They are intended for use in voltage and ESD sensitive equipment such as computers, business machines, communication printers, systems, medical equipment and other applications. These devices are ideal for situations where board space is at a premium.

This series has been specifically designed to protect sensitive components which are connected to power, data and transmission lines from overvoltage caused by ESD(electrostatic discharge), CDE (Cable Discharge Events), and EFT (electrical fast transients).

ORDERING INFORMATION

→ Package: SOD-323→ Material: Halogen free→ Packing: Tape & Reel

♦ Quantity per reel: 3,000pcs

FEATURES

- ♦IEC61000-4-2 (ESD) ±15kV (air), ±8kV (contact)
- ♦IEC61000-4-4 (EFT) 40A (5/50ηs)
- ♦350 Watts Peak Pulse Power per (tp=8/20µs)
- ♦Protects one I/O line (bidirectional)
- ♦Low clamping voltage
- ♦Low leakage current

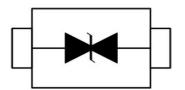
MACHANICAL DATA

- ♦SOD-323 package
- ♦ Flammability Rating: UL 94V-0
- ♦Packaging: Tape and Reel
- ♦ High temperature soldering guaranted:260 °C/10s
- ♦Reel size: 7 inch

APPLICATIONS

- ♦ Cell Phone Handsets and Accessories
- ♦ Microprocessor based equipment
- ♦ Personal Digital Assistants (PDA's)
- ♦ Notebooks, Desktops, and Servers
- ♦Portable Instrumentation
- ♦ Networking and Telecom
- ♦ Serial and Parallel Ports.
- ♦ Peripherals

PIN CONFIGURATION



PACKAGE OUTLINE



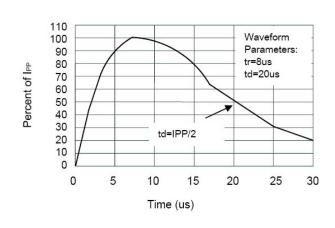


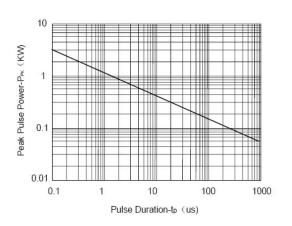
ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV				
P _{PP}	Peak Pulse Power (8/20μs)	350	W				
T _{OPT}	Operating Temperature	-55/+150	°C				
T _{STG}	Storage Temperature	-55/+150	°C				
TL	Lead Soldering Temperature	260 (10 sec.)	°C				

ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART NUMBER	DEVICE MARKING	V _{RWM} (V)	V _B (V)	I _T (mA)	V _C @1A (V)	V (\		Ι _R (μΑ)	C _T (pF)
		(max.)	(min.)		(max.)	(max.)	(@A)	(max.)	(max.)
PESD24VL1BA	2H	24.0	26.7	1	43.0	52.0	7	1	50



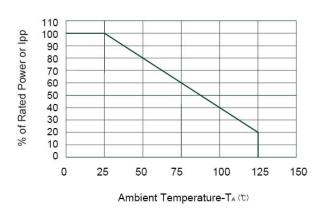
ELECTRICAL CHARACTERISTICS CURVE

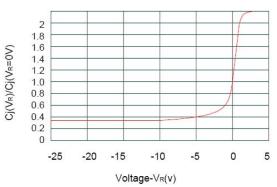




Pulse Waveform





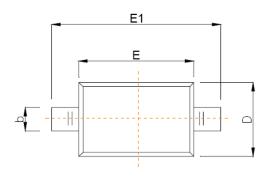


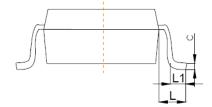
Power Derating Curve

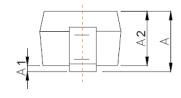
Junction Capacitance vs. Reverse Voltage



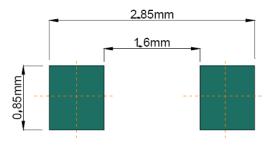
SOD-323 PACKAGE OUTLINE DIMENSIONS







Symbol	Dimensions In Millimeters				
Symbol	Min	Max			
Α		1.00			
A1	0.000	0.100			
A2	0.800	0.900			
b	0.250	0.350			
С	0.080	0.150			
D	1.200	1.400			
E	1.600	1.800			
E1	2.500	2.700			
е	1.800	2.040			
L	0.475 REF				
L1	0.250	0.400			
θ	0°	8°			



Recommended Pad outline