

SLPESDxxL1BA

DESCRIPTION

The SLPESDXXL1BA Series is designed for applications overvoltage requiring transient protection capability. They are intended for use in voltage and ESD sensitive equipment such computers. printers. business machines. communication 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).

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
- ♦ Working voltages :3V,5V,12V,15V,24V
- ♦ 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
- ♦MSL 1

ORDERING INFORMATION

Device: SLPESDxxL1BAPackage: SOD-323Material: Halogen freePacking: Tape & Reel

♦ Quantity per reel: 3,000pcs

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





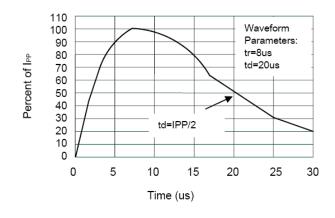
SLPESDxxL1BA

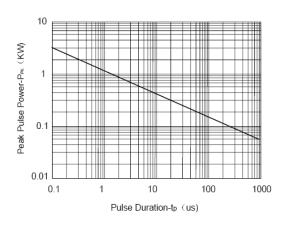
ABSOLUTE MAXIMUM RATING							
Symbol	Parameter	Value	Units				
V _{ESD}	ESD per IEC 61000-4-2 (Air) ESD per IEC 61000-4-2 (Contact)	±15 ±8	kV				
P _{PP}	Peak Pulse Power (8/20µs)	350	W				
T _{OPT}	Operating Temperature	-55/+150	°C				
T _{STG}	Storage Temperature	-55/+150	°C				
T_L	Lead Soldering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

ELECTRICAL CHARACTERISTICS (Tamb=25°C)									
PART	DEVICE MARKING	V _{RWM} (V)	V _B (V)	I _T (mA)	V _C @1A (V)	V _C (V)		I _R (μΑ)	C _T (pF)
NUMBER		(max.)	(min.)		(max.)	(max.	(@A)	(max.	(max.)
SLPESD3V3L1BA	AB	3.3	4.0	1	7.5	13.0	20	40	450
SLPESD5V0L1BA	AC	5.0	6.0	1	9.8	18.0	17	10	200
SLPESD12VL1BA	AD	12.0	13.3	1	19.0	32.0	11	1	75
SLPESD15VL1BA	AE	15.0	16.7	1	24.0	38.0	10	1	68
SLPESD24VL1BA	AF	24.0	26.7	1	43.0	52.0	7	1	50



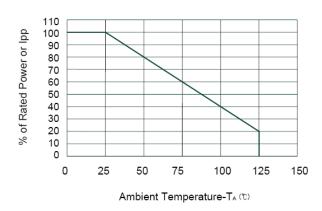
ELECTRICAL CHARACTERISTICS CURVE

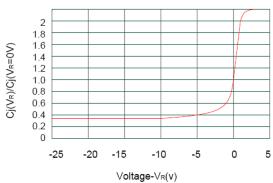




Pulse Waveform

Non-Repetitive Peak Pulse Power vs. Pulse Time



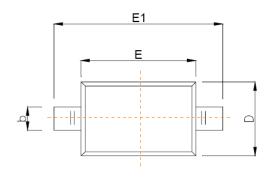


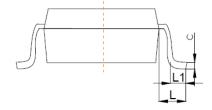
Power Derating Curve

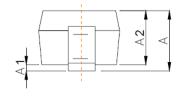
Junction Capacitance vs. Reverse Voltage



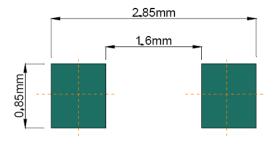
SOD-323 PACKAGE OUTLINE DIMENSIONS







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