DESCRIPTION

The SLPESDxxL1BA Series isdesigned for applications requiring transient overvoltage protection capability. They are intended for use in voltage and ESD sensitive equipment such as 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℃/10s
- ✧Reel size: 7 inch
- ✧MSL 1

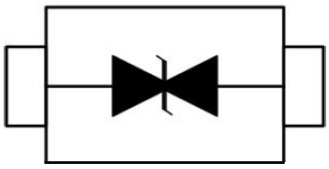
ORDERING INFORMATION

- ✧Device: SLPESDxxL1BA
- ✧Package: SOD-323
- ✧Material: Halogen free
- ✧Packing: 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



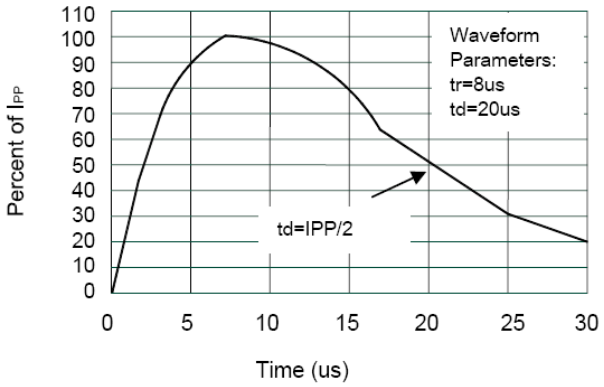
ABSOLUTE MAXIMUM RATING

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

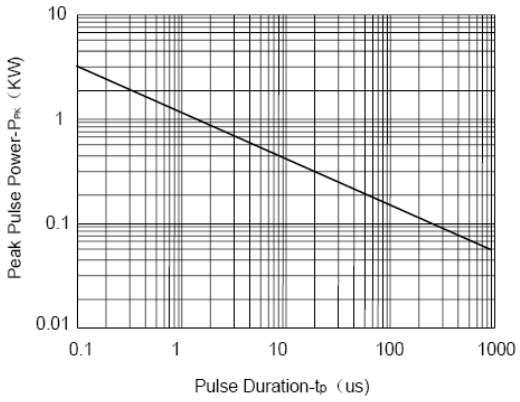
ELECTRICAL CHARACTERISTICS (Tamb=25°C)

PART NUMBER	DEVICE MARKING	V_{RWM} (V) (max.)	V_B (V) (min.)	I_T (mA)	V_C@1A (V) (max.)	V_C (V) (max.)	(@A)	I_R (μA) (max.)	C_T (pF) (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

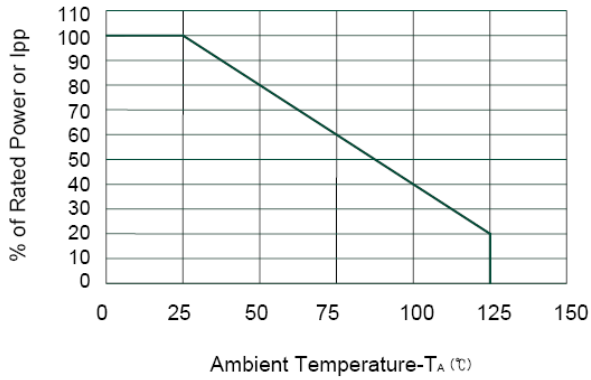
ELECTRICAL CHARACTERISTICS CURVE



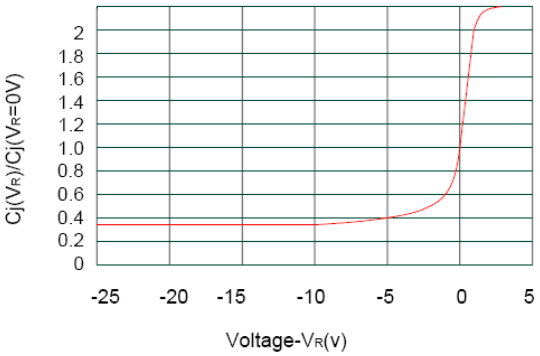
Pulse Waveform



Non-Repetitive Peak Pulse Power vs. Pulse Time

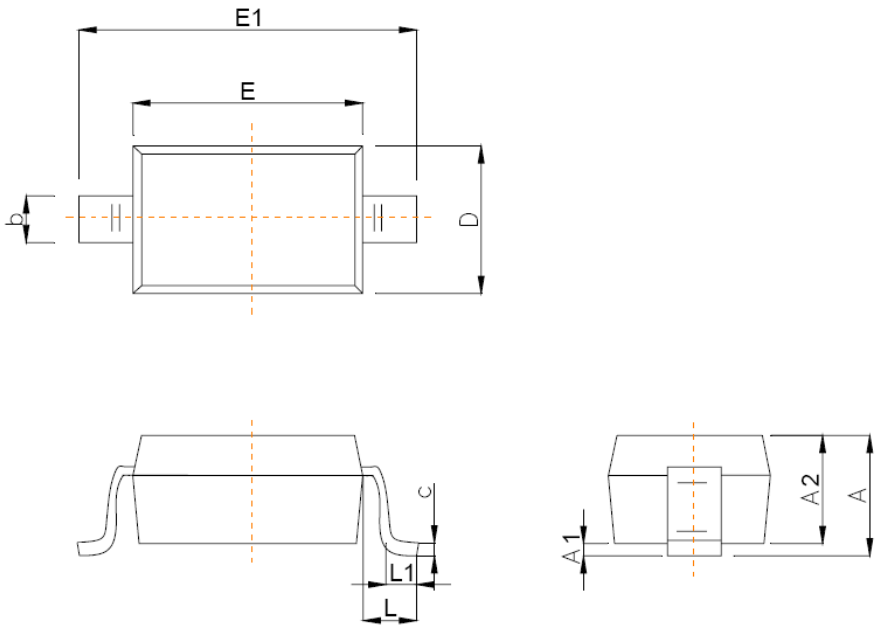


Power Derating Curve

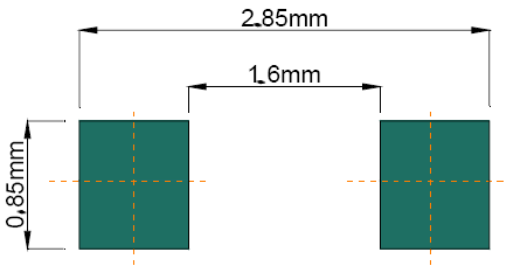


Junction Capacitance vs. Reverse Voltage

SOD-323 PACKAGE OUTLINE DIMENSIONS



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



Recommended Pad outline

Unikeyic Electronics

Global Electronic Components Distributor

Click to view pricing, inventory, delivery, and lifecycle information:

Slkor:

BZT52B9V1 LM78L05D MMST2907A SL15T120FL SL2302 ES2D FR107 MMDT2222A
SLPESDNC2FD5VB DB305S SL9926A 1SMA5929A MM5Z12V MMBT3906T SL4041 SL4949 SL7333-8
BAV99DW MM1Z15B SL4407A SL45H11 SLE0504 1SMAF4735A SL0603ESDA-TR1 SLESD0521D52RG
SL214M SL5N100P SL9459 SLESD0701OC ZMM18