

# ESDLC24VD3B

## 24Volts ESD Protection Devices

### Features

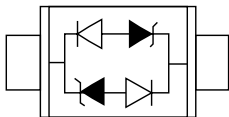
- Halogen free available upon request by adding suffix "-HF"
- Bidirectional configurations
- Protects one power or I/O port
- Low clamping voltage
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

### Maximum Ratings

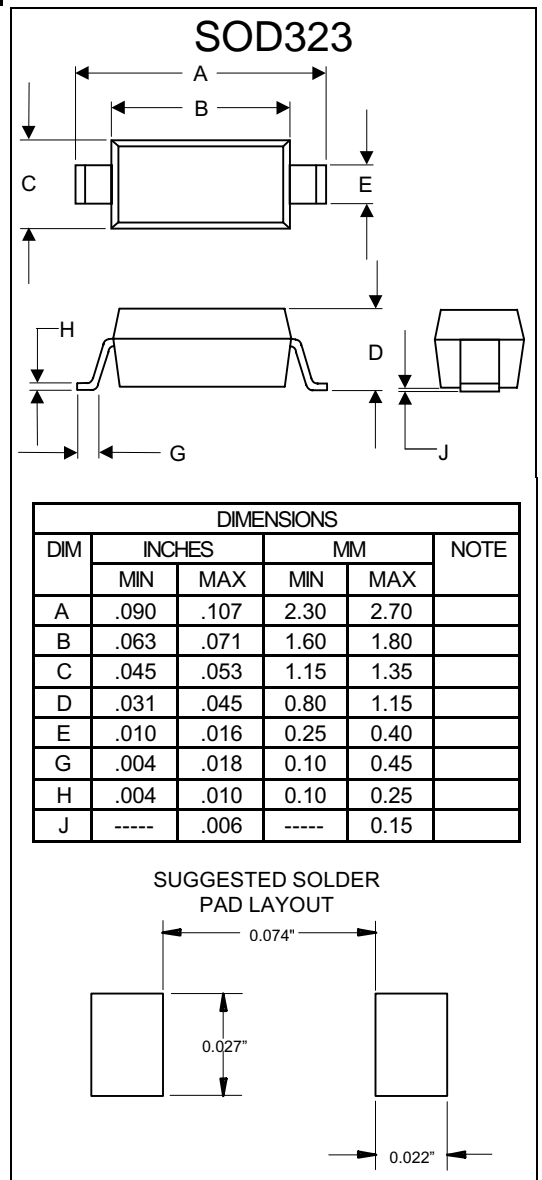
- Operating Junction & Storage Temperature: -55°C to +150°C

Parameter	Symbol	Limits	unit
IEC61000-4-2(ESD) Air Contact		±30 ±30	KV
IEC61000-4-4 (EFT) @ 5/50ns		80	A
Power Dissipation	Pd	350	W

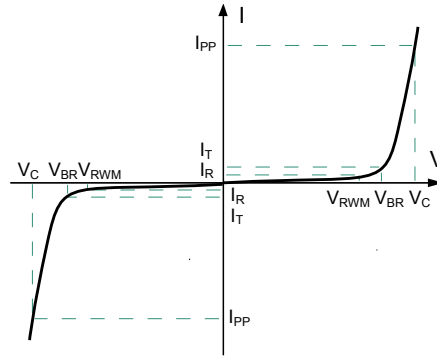
### Pin Configuration



Marking: YC



Symbol	Parameter
$V_{RWM}$	Peak Reverse Working Voltage
$I_R$	Reverse Leakage Current @ $V_{RWM}$
$V_{BR}$	Breakdown Voltage @ $I_T$
$I_T$	Test Current
$I_{PP}$	Maximum Reverse Peak Pulse Current
$V_C$	Clamping Voltage @ $I_{PP}$
$P_{PP}$	Peak Pulse Power
$C_J$	Junction Capacitance
$I_F$	Forward Current
$V_F$	Forward Voltage @ $I_F$



### Electrical characteristics per line@25°C ( unless otherwise specified)

Device	$V_{RWM}$	$I_R$	$V_{BR}$	$V_C$	$V_C$	$C_J$
	(V)	@ $V_{RWM}$ ( $\mu A$ )	@ 1mA (V)	@ $I_P = 1A$ (V)	@ $I_{PP}$ (V)	@ 0V, 1MHz (pF)
ESDLC24VD3B	24	1	26.7	33	45@6A	3

### Ratings and Characteristic Curves

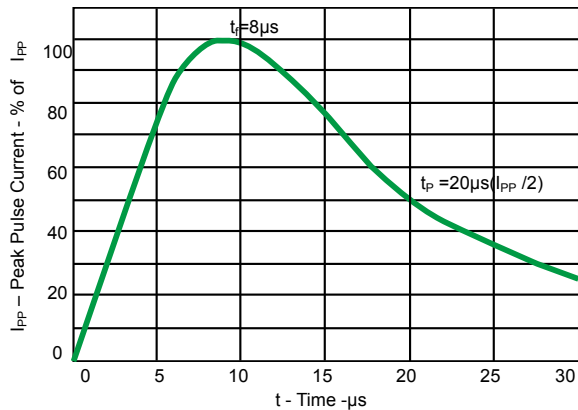


Fig 1.Pulse Waveform

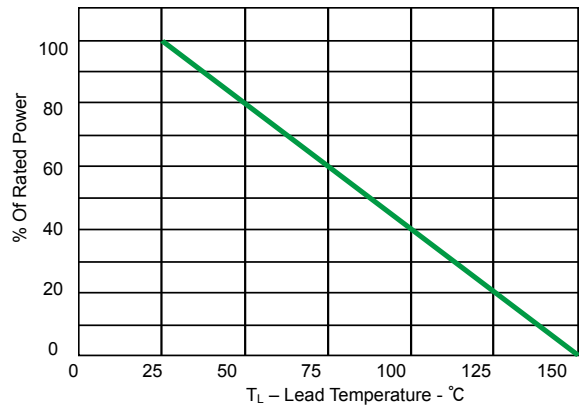


Fig 2.Power Derating Curve

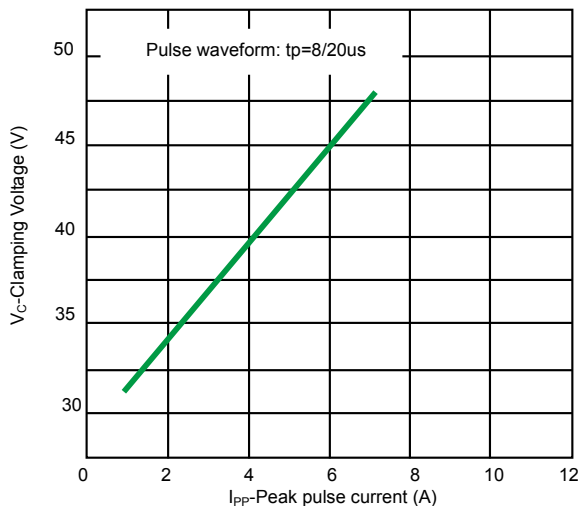


Fig 3. Clamping voltage vs. Peak pulse current

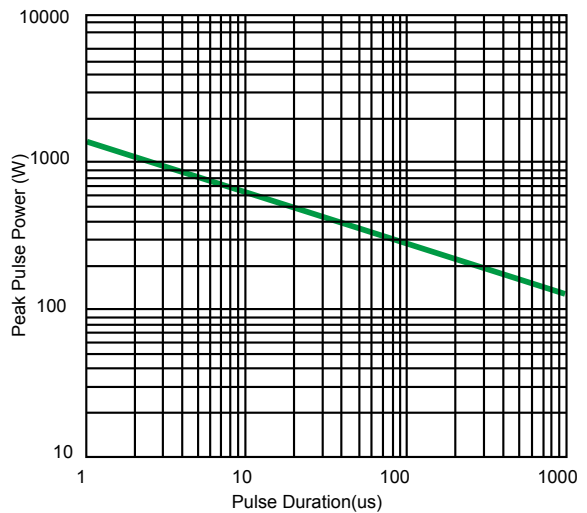


Fig 4. Non Repetitive Peak Pulse Power vs. Pulse time



## Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel: 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

### \*\*\*IMPORTANT NOTICE\*\*\*

Siyang Grande Electronics Co., Ltd. reserves the right to make changes without further notice to any product herein to make corrections, modifications, enhancements, improvements, or other changes. Siyang Grande Electronics Co., Ltd. does not assume any liability arising out of the application or use of any product described herein; neither does it convey any license under its patent rights, nor the rights of others. The user of products in such applications shall assume all risks of such use and will agree to hold Siyang Grande Electronics Co., Ltd. and all the companies whose products are represented on our website, harmless against all damages.

### \*\*\*LIFE SUPPORT\*\*\*

GRANDE's products are not authorized for use as critical components in life support devices or systems without the express written approval of Siyang Grande Electronics Co., Ltd.

### \*\*\*CUSTOMER AWARENESS\*\*\*

Counterfeiting of semiconductor parts is a growing problem in the industry. Siyang Grande Electronics Co., Ltd. (GRANDE) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. GRANDE strongly encourages customers to purchase GRANDE parts either directly from GRANDE or from Authorized GRANDE Distributors who are listed by country on our web page cited below. Products customers buy either from GRANDE directly or from Authorized GRANDE Distributors are genuine parts, have full traceability, meet GRANDE's quality standards for handling and storage. GRANDE will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources. GRANDE is committed to combat this global problem and encourage our customers to do their part in stopping this practice by buying direct or from authorized distributors.