

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China









Micro Commercial Components



Micro Commercial Components 20736 Marilla Street Chatsworth Chatsworth, CA 91311

Phone: (818) 701-4933 Fax: (818) 701-4939

ESDLC3V3D3 Thru ESDLC12VD3

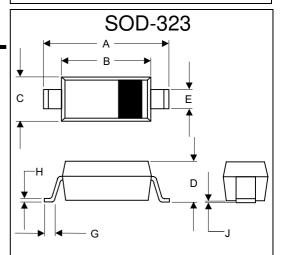
Features

- SOD-323 package
- Low clamping voltage
- IEC61000-4-2(ESD)±15kvV(air),±8kv(contact)
- 350W peak pulse power (8/20 us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

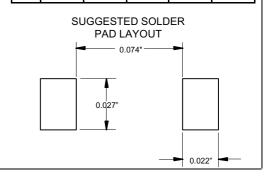
Maximum Ratings

| Parameter | Symbol | Limits | unit |
|-------------------------|------------------|----------|------|
| Peak pulse power 8/20us | P_PP | 350 | W |
| Operating Temperature | T_j | -55~+150 | °C |
| Storage temperature | T _{stg} | -55~+150 | °C |

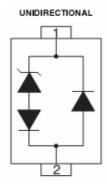
3.3V-12Volts ESD Protection Device



| | DIMENSIONS | | | | |
|-----|------------|------|------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| Α | .090 | .107 | 2.30 | 2.70 | |
| В | .063 | .071 | 1.60 | 1.80 | |
| С | .045 | .053 | 1.15 | 1.35 | |
| D | .031 | .045 | 0.80 | 1.15 | |
| Е | .010 | .016 | 0.25 | 0.40 | |
| G | .004 | .018 | 0.10 | 0.45 | |
| Н | .004 | .010 | 0.10 | 0.25 | |
| J | | .006 | | 0.15 | |



Pin Configuration-Top View

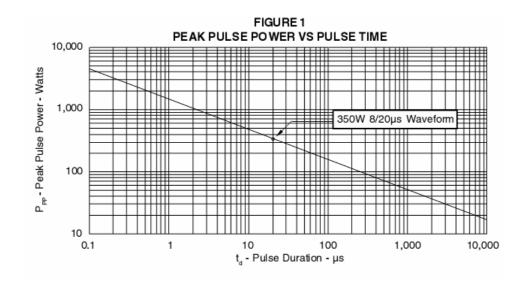


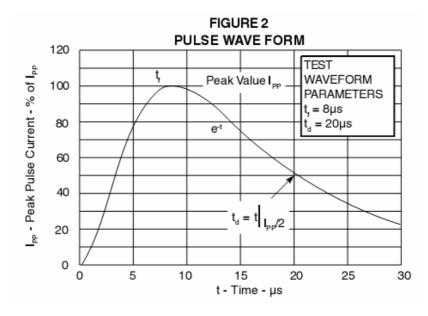




ELECTRICAL CHARACTERISTICS (T_A = 25°C unless otherwise noted)

| Device | V _{RWM} | I _R @ V _{RWM} | Min Breakdown Voltage V _{BR} @1mA | Max Clam Voltage @ I _{P=1A} | | Typ. Cj @0V,1MHZ |
|------------|------------------|--------------------------------------|--|--|------------|------------------------|
| | Volts | uA | Volts | Volts | Volts | pF |
| ESDLC3V3D3 | 3.3 | 20 | 4.0 | 7.0 | 36.0@28.0A | 4.5 |
| ESDLC5V0D3 | 5 | 5 | 6.0 | 9.8 | 32.0@21.0A | 5 |
| ESDLC12VD3 | 12 | 5 | 13.3 | 19.0 | 28.6@11.0A | 3 |







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Ordering Information:

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

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

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