



Micro Commercial Components



Micro Commercial Components
20736 Marilla Street Chatsworth
Chatsworth, CA 91311
Phone: (818) 701-4933
Fax: (818) 701-4939

ESDLC3V3D3 Thru ESDLC12VD3

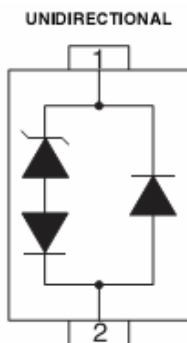
Features

- SOD-323 package
- Low clamping voltage
- IEC61000-4-2(ESD) $\pm 15\text{kvV}(\text{air}), \pm 8\text{kv}(\text{contact})$
- 350W peak pulse power (8/20 us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1

Maximum Ratings

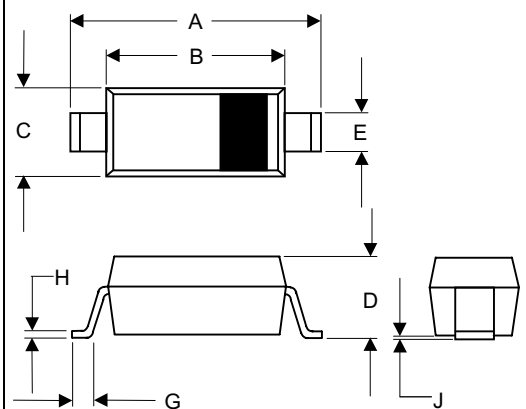
Parameter	Symbol	Limits	unit
Peak pulse power 8/20us	P_{PP}	350	W
Operating Temperature	T_j	-55~+150	°C
Storage temperature	T_{stg}	-55~+150	°C

Pin Configuration-Top View



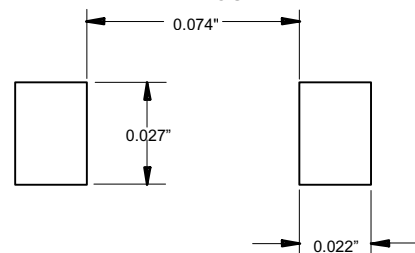
3.3V-12Volts ESD Protection Device

SOD-323



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT



ESDLC3V3D3-ESDLC12VD3

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Device	V_{RWM} Volts	I_R @ V_{RWM} uA	Min Breakdown Voltage V_{BR} @1mA Volts	Max Clamping Voltage V_C		Typ. Cj @0V,1MHZ pF
				@ $I_P=1A$ Volts	@ I_{PP} Volts	
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

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

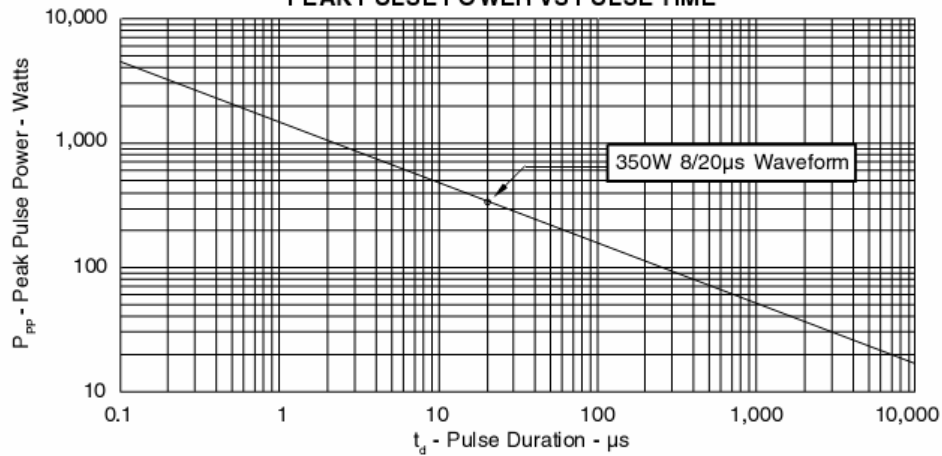
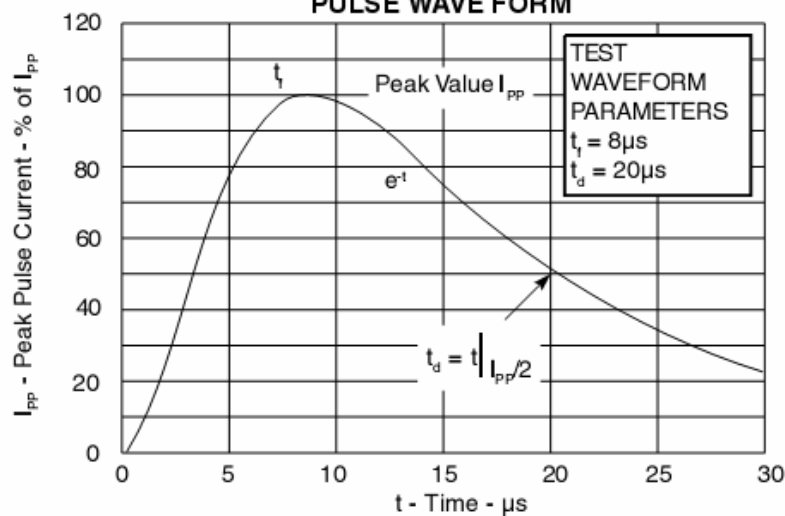


FIGURE 2
PULSE WAVE FORM





TM

Micro Commercial Components

Ordering Information :

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

*****IMPORTANT NOTICE*****

Micro Commercial Components Corp. reserves the right to make changes without further notice to any product herein to make corrections, modifications , enhancements , improvements , or other changes . **Micro Commercial Components Corp .** 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 **Micro Commercial Components Corp .** and all the companies whose products are represented on our website, harmless against all damages.

*****LIFE SUPPORT*****

MCC's products are not authorized for use as critical components in life support devices or systems without the express written approval of Micro Commercial Components Corporation.

*****CUSTOMER AWARENESS*****

Counterfeiting of semiconductor parts is a growing problem in the industry. Micro Commercial Components (MCC) is taking strong measures to protect ourselves and our customers from the proliferation of counterfeit parts. MCC strongly encourages customers to purchase MCC parts either directly from MCC or from Authorized MCC Distributors who are listed by country on our web page cited below. Products customers buy either from MCC directly or from Authorized MCC Distributors are genuine parts, have full traceability, meet MCC's quality standards for handling and storage. **MCC will not provide any warranty coverage or other assistance for parts bought from Unauthorized Sources.** MCC 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.

www.mccsemi.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Micro Commercial Components \(MCC\):](#)

[ESDLC12VD3B-TP](#) [ESDLC12VD3-TP](#) [ESDLC3V3D3B-TP](#) [ESDLC3V3D3-TP](#) [ESDLC5V0D3B-TP](#) [ESDLC5V0D3-TP](#)