

Features

- Low Clamping Voltage
- Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free. "Green" Device (Note 1)
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

Maximum Ratings

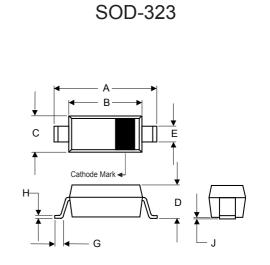
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C



MCC Part Number	Device Marking
ESDLC3V3D3	03
ESDLC5V0D3	05
ESDLC12VD3	12

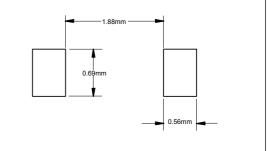
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV	
Peak Pulse Power (8/20us)	Р _{РК}	350W	

Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

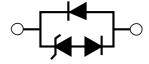


DIMENSIONS					
DIM	INCHES		MM		NOTE
DIV	MIN	MAX	MIN	MAX	NOTE
А	0.090	0.107	2.30	2.70	
В	0.063	0.071	1.60	1.80	
С	0.045	0.053	1.15	1.35	
D	0.031	0.045	0.80	1.15	
E	0.010	0.016	0.25	0.40	
G	0.004	0.018	0.10	0.45	
Н	0.004	0.010	0.10	0.25	
J		0.006		0.15	

Suggested Solder Pad Layout



Internal Structure





Electrical Characteristics @ 25°C (Unless Otherwise Specified)

ESDLC3V3D3

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				3.3	V
Reverse Breakdown Voltage	V _{BR}	Ι _T = 1mA	4			V
Reverse Leakage Current	I _R	V _{RWM} =3.3V			20	μA
Peak Pulse Current	I _{PP}	t _P =8/20μs			28	А
Clamping Voltage	V _c	I _{PP} =1A, t _P =8/20μs			7	V
Clamping Voltage	V _C	I _{PP} =28A, t _P =8/20μs			36	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		4.5		pF

ESDLC5V0D3

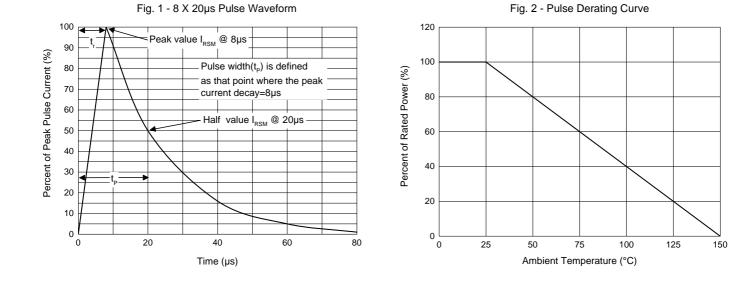
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			5	μA
Peak Pulse Current	I _{PP}	t _P =8/20μs			21	Α
Clamping Voltage	Vc	I _{PP} =1A, t _P =8/20μs			9.8	V
Clamping Voltage	V _C	I _{PP} =21A, t _P =8/20μs			32	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		5		pF

ESDLC12VD3

Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				12	V
Reverse Breakdown Voltage	V _{BR}	I _T = 1mA	13.3			V
Reverse Leakage Current	I _R	V _{RWM} =12V			5	μA
Peak Pulse Current	I _{PP}	t _P =8/20μs			11	А
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20µs			19	V
Clamping Voltage	V _C	I _{PP} =11A, t _P =8/20μs			28.6	V
Junction Capacitance	CJ	V _R = 0V, f = 1MHz		3		pF



Curve Characteristics





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.