THE DATASHEET OF

ESDLC3V3D3-TP

Micro Commercial Components

Micro Commercial Components
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ESDLC3V3D3 Thru ESDLC12VD3

3.3V-12Volts ESD Protection Device

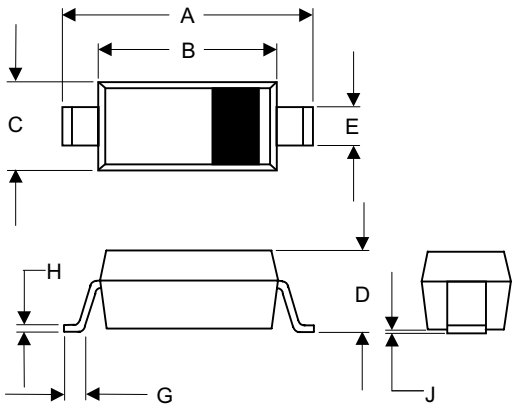
Features

- 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

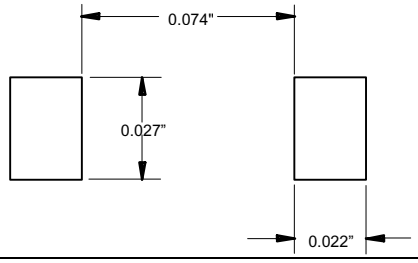
Parameter	Symbol	Limits	unit
Peak pulse power 8/20us	P_{PP}	350	W
Operating Temperature	T_j	-55~+150	°C
Storage temperature	T_{stg}	-55~+150	°C

SOD-323



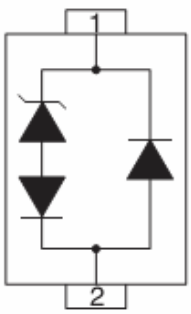
DIMENSIONS					
DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	.090	.107	2.30	2.70	
B	.063	.071	1.60	1.80	
C	.045	.053	1.15	1.35	
D	.031	.045	0.80	1.15	
E	.010	.016	0.25	0.40	
G	.004	.018	0.10	0.45	
H	.004	.010	0.10	0.25	
J	-----	.006	-----	0.15	

SUGGESTED SOLDER PAD LAYOUT



Pin Configuration-Top View

UNIDIRECTIONAL



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

Device	V_{RWM}	I_R @ V_{RWM}	Min Breakdown Voltage V_{BR} @1mA	Max Clamping Voltage Vc @ $I_{P=1A}$	Max Clamping Voltage Vc @ I_{PP}	Typ. Cj @0V,1MHZ	Device Marking
	Volts	uA	Volts	Volts	Volts	pF	
ESDLC3V3D3	3.3	20	4.0	7.0	36.0@28.0A	4.5	03
ESDLC5V0D3	5	5	6.0	9.8	32.0@21.0A	5	05
ESDLC12VD3	12	5	13.3	19.0	28.6@11.0A	3	12/SA

FIGURE 1
PEAK PULSE POWER VS PULSE TIME

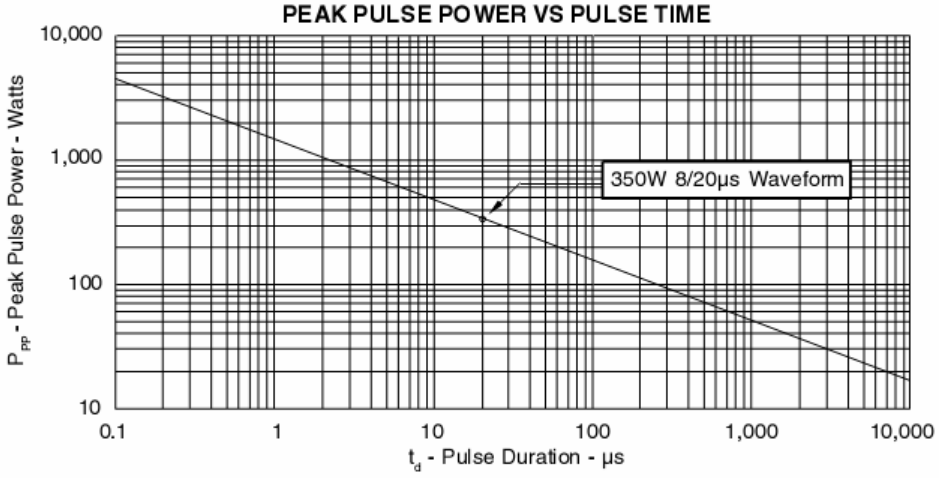
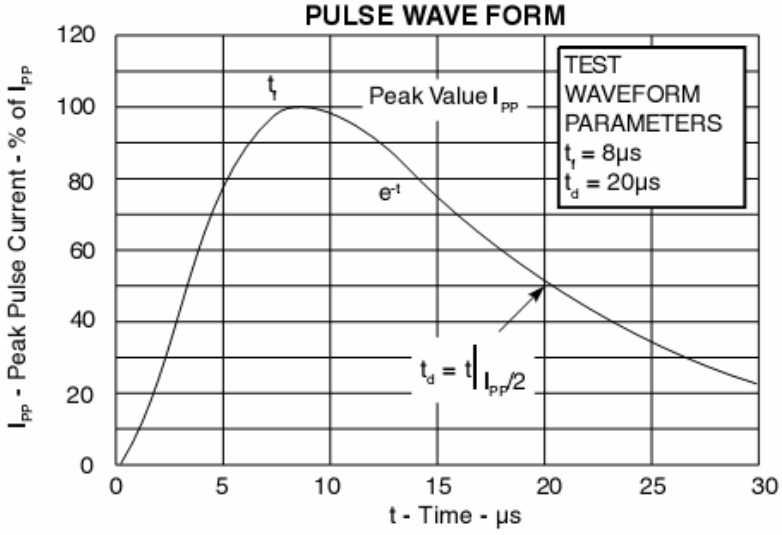


FIGURE 2
PULSE WAVE FORM



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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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