

Features

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

Maximum Ratings

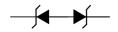
- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

MCC Part Number	Device Marking
ESDLC5V0L2B	H1

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-5(Surge) @8/20us	I _{PP}	5A
Peak pulse power(tp=8/20us)	P _{PP}	75W

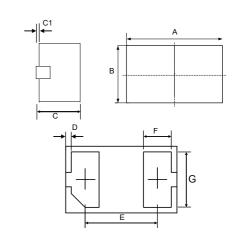
Note: 1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

Internal Structure



ESD Protection Device

DFN1006-2L



	DIMENSIONS				
DIM	INC	HES	MM		NOTE
	MIN	MAX	MIN	MAX	NOTE
Α	0.037	0.041	0.95	1.05	
В	0.022	0.026	0.55	0.65	
С	0.016	0.020	0.40	0.50	
C1		0.002		0.05	
D	0.001	0.003	0.02	0.08	
Е	0.026		0.65		TYP.
F	0.008	0.012	0.20	0.30	
G	0.018	0.022	0.45	0.55	



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

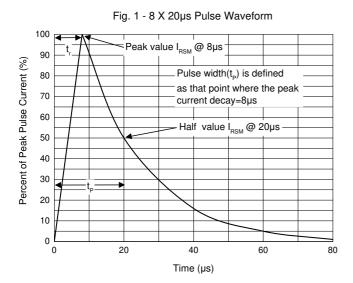
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V_{RWM}				5	٧
Reverse Breakdown Voltage	V_{BR}	I _T = 1mA	5.6			V
Reverse Leakage Current	I _R	V _{RWM} =5V			0.5	μA
Clamping Voltage ^(Note 2)	V _C	I _{PP} =8A, t _P =100ns		9		٧
Clamping Voltage ^(Note 2)	V _C	I _{PP} =16A, t _P =100ns		10		V
Clamping Voltage	V _C	I _{PP} =1A, t _P =8/20μs		7	9	V
Clamping Voltage	V _C	I _{PP} =5A, t _P =8/20µs			15	V
Junction Capacitance	CJ	V _R =0V, f=1MHz	8	10	15	pF

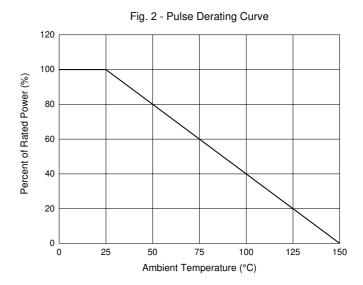
Note:

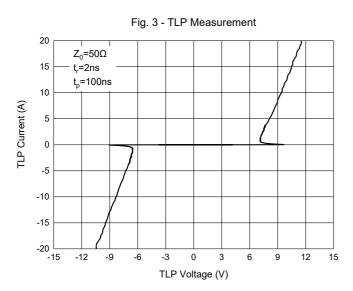
 $2. \ TLP \ Parameter: Z_0 = 50\Omega, \ t_p = 100 ns, \ t_r = 2 ns, \ Averaging \ Window \ from \ 60 ns \ to \ 80 ns. \ R_{DYN} \ is \ Calculated \ from \ 4A \ to \ 16A.$



Curve Characteristics









Ordering Information

Device	Packing
Part Number-TP	Tape&Reel: 10Kpcs/Reel

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Rev.3-5-04232021 4/4 MCCSEMI.COM