



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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

ESDLC5V0LB

Features

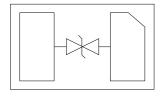
- Protects one data or power line
- · Low clamping voltage
- Ultra low leakage: nA level
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5(Lightning) 8A (8/20us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"

Maximum Ratings

- Junction Temperature: -55°C to +125°C
- StorageTemperature: -55°C to +150°C

Parameter		Symbol	Limits	unit	
IEC61000-4-2(ESD)	Contact	\/	±30	ΚV	
	Air	V_{ESD}	±30	۸V	
Peak Pulse Power (8/20us)		P_{pk}	80	W	
Peak Pulse Current (8/20us)		I_{pp}	8	Α	

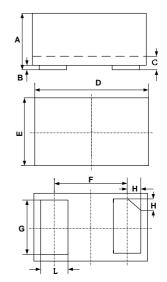
Circuit and Pin Schematic



Marking Code: B2

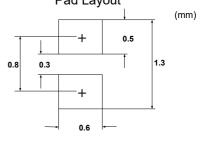
ESD Protection Device

DFN1006-2



DIMENSIONS					
INCHES		HES	MN	NOTE	
DIM	MIN	MAX	MIN	MAX	NOTE
A	0.018	0.022	0.45	0.55	
В	0.000	0.002	0.00	0.05	
С	0.005	0.007	0.12	0.18	
D	0.037	0.041	0.95	1.05	
Е	0.022	0.026	0.55	0.65	
F	0.026	REF.	0.650 I	REF.	
G	0.018	0.022	0.45	0.55	
Н	0.003	0.007	0.07	0.17	
L	0.008	0.012	0.20	0.30	

Suggested Solder Pad Layout



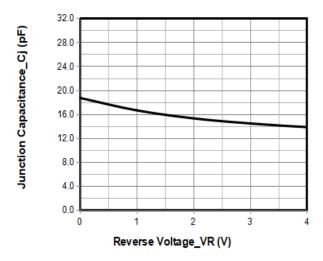


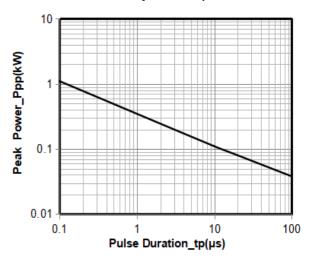
Electrical Characteristics (T_A=25°C unless otherwise specified)

Parameter	Symbol	Min	Тур	Max	Unit	Test Condition
Reverse Working Voltage	VRWM			5.5	V	
Breakdown Voltage	VBR	6		8	V	IT = 1mA
Reverse Leakage Current	I _R		1	200	nA	VRWM = 5.5V
Clamping Voltage	Vc			8	V	IPP = 1A
Clamping Voltage	Vc			10	V	IPP = 8A
Junction Capacitance	Cl			20	pF	VR = 0V, f = 1MHz

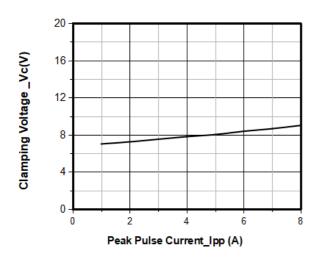


Typical Performance Characteristics (T_A=25°C unless otherwise Specified)

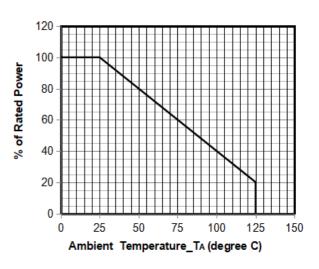




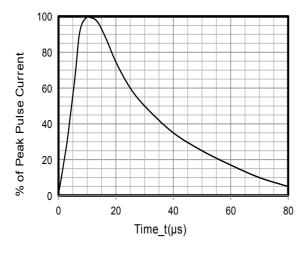
Junction Capacitance vs. Reverse Voltage

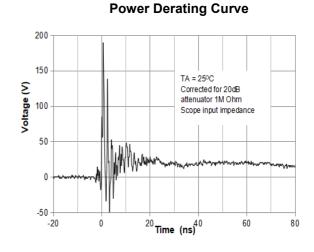


Peak Pulse Power vs. Pulse Time



Clamping Voltage vs. Peak Pulse Current (tp = 8/20µs)





8 X 20µs Pulse Waveform

ESD Clamping Voltage 8 kV Contact per IEC61000-4-2



Ordering Information:

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

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

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