



Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311

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ESDSLC5V0LB

Features

- Ultra Low Capacitance 0.26pF typical
- Low operating Voltage: 5.0 V
- · Low clamping voltage
- IEC61000-4-4 (EFT) 40A (5/50ns)
- IEC61000-4-5(Lightning) 4A (8/20us)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- Halogen free available upon request by adding suffix "-HF"
- Marking:21

Maximum Ratings

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

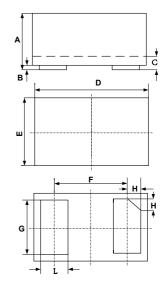
Parameter		Symbol	Limits	unit	
IEC61000-4-2(ESD)	Contact	\/	±15	KV	
	Air	V_{ESD}	± 20		
Peak Pulse Power (8/20us)		P_{pk}	80	W	
Peak Pulse Current (8/20us)		I _{pp}	4	Α	

Internal Structure



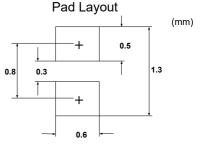
ESD Protection Device

DFN1006-2



	DIMENSIONS				
INCH		HES	MM		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	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





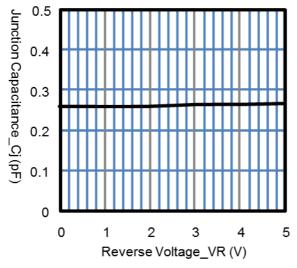
ESDSLC5V0LB

ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise specified)

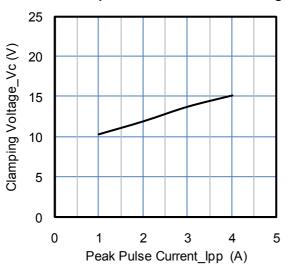
Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Reverse stand off voltage	V _{RWM}				5.0	V
Reverse leakage current	I _R	V _{RWM} =5.0V			0.5	μA
Breakdown voltage	V _(BR)	I _T =1mA	6.0	8.0	9.0	V
Clamping voltage	Vc	I _{PP} =1A			12	V
Clamping voltage	Vc	I _{PP} =4A			20	V
Junction capacitance	Сл	V _R =0V,f=1MHz		0.26	0.35	pF



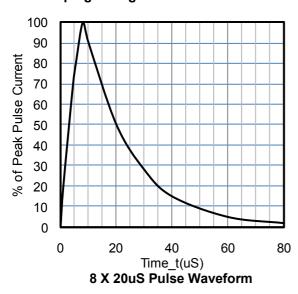
Typical Performance Characteristics (TA=25°C unless otherwise Specified)

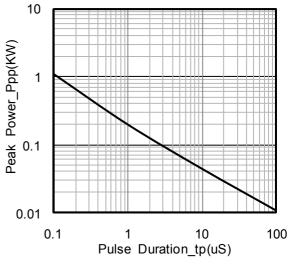


Junction Capacitance vs. Reverse Voltage

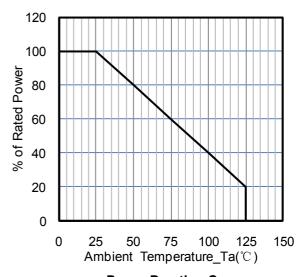


Clamping Voltage vs. Peak Pulse Current

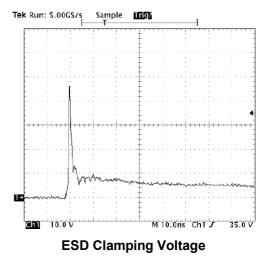




Peak Pulse Power vs. Pulse Time



Power Derating Curve





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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