

### **Features**

- · Solid-state Silicon technology
- · Ultra Low Capacitance
- · Ultra 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 +125°C
- Storage Temperature Range: -55°C to +150°C

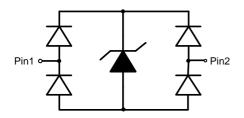
MCC Part Number	Device Marking		
ESDSBSLC18VLB	8U		

IEC61000-4-2(ESD)	Air Contact	±15KV ±15KV
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	4A
Peak Pulse Power (8/20µs)	P <sub>PK</sub>	40W

#### Note:

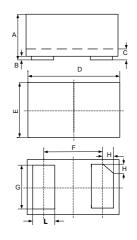
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

#### **Internal Structure**



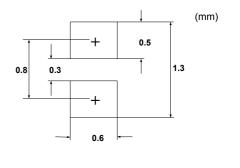
# Snap Back ESD Protection Device

# DFN1006-2



DIMENSIONS						
DIM	INCHES		MM		NOTE	
DIIVI	MIN	MAX	MIN	MAX	INOTE	
Α	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	0.0	)26	0.6	650	TYP.	
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 @ 25°C (Unless Otherwise Specified)

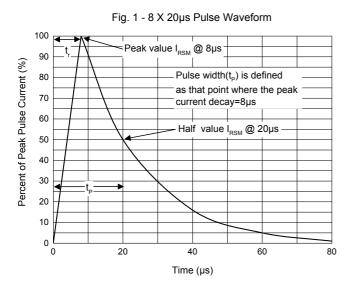
Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	$V_{RWM}$				18	V
Reverse Breakdown Voltage	$V_{BR}$	I <sub>T</sub> = 1mA	18.5			V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =18V		<1	50	nA
Clamping Voltage <sup>(Note 2)</sup>	V <sub>C</sub>	$I_{PP}$ =16A, $t_{P}$ =100ns		10		V
Dynamic Resistance <sup>(Note 2)</sup>	R <sub>DYN</sub>			0.25		Ω
Clamping Voltage <sup>(Note 3)</sup>	V <sub>C</sub>	V <sub>ESD</sub> =8KV		10		V
Clamping Voltage <sup>(Note 4)</sup>	V <sub>C</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs		5	6	V
Clamping Voltage <sup>(Note 4)</sup>	V <sub>C</sub>	I <sub>PP</sub> =4A, t <sub>P</sub> =8/20μs		9	10	V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		0.35	0.5	pF

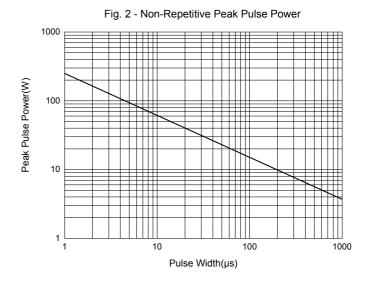
## Note:

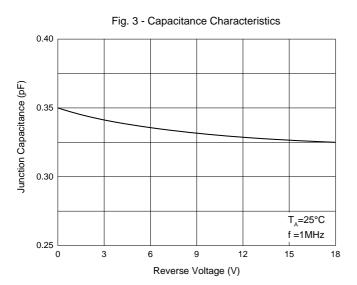
- 2. TLP Parameter:  $Z_0$ =50 $\Omega$ ,  $t_p$ =100ns,  $t_r$ =2ns, Averaging Window from 60ns to 80ns.  $R_{DYN}$  is Calculated from 4A to 16A.
- 3. Contact Discharge Mode, According to IEC61000-4-2.
- 4. Non-repetitive Current Pulse, According to IEC61000-4-5.

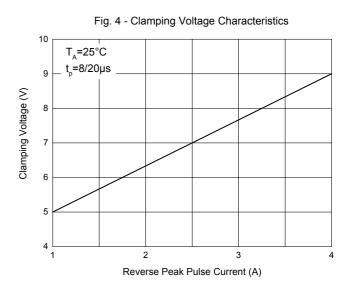


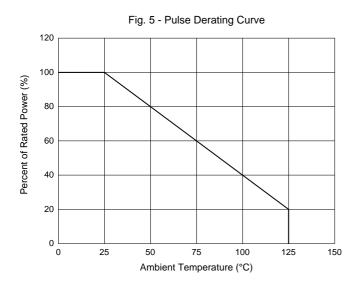
## **Curve Characteristics**













# **Ordering Information**

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

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