

## Features

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



MCC Part Number	Device Marking
ESDSBLC3V3LB	3A

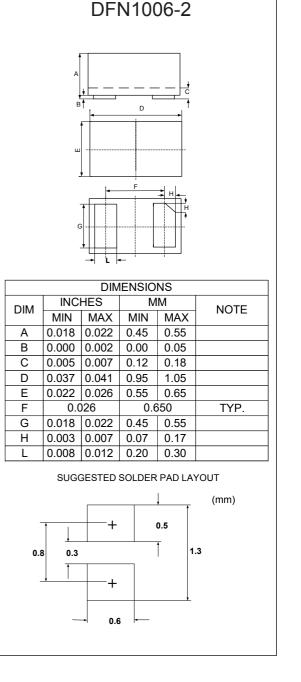
IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I <sub>PP</sub>	9A
Peak Pulse Power (8/20µs)	Р <sub>РК</sub>	90W

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** 

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Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V <sub>RWM</sub>				3.3	V
Reverse Breakdown Voltage	V <sub>BR</sub>	I <sub>T</sub> =1mA	3.5	4		V
Reverse Holding Voltage	V <sub>HOLD</sub>	I <sub>T</sub> =50mA	3.5	4		V
Reverse Leakage Current	I <sub>R</sub>	V <sub>RWM</sub> =3.3V			100	nA
Clamping Voltage <sup>(Note 2)</sup>	V <sub>C</sub>	I <sub>PP</sub> =16A, t <sub>P</sub> =100ns		9		V
Dynamic Resistance <sup>(Note 2)</sup>	R <sub>DYN</sub>			0.2		Ω
Clamping Voltage <sup>(Note 3)</sup>	V <sub>c</sub>	V <sub>ESD</sub> =8KV		9		V
Clamping Voltage <sup>(Note 4)</sup>	V <sub>c</sub>	I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs			6	V
Clamping Voltage <sup>(Note 4)</sup>	V <sub>C</sub>	I <sub>PP</sub> =9A, t <sub>P</sub> =8/20μs			10	V
Junction Capacitance	CJ	V <sub>R</sub> =0V, f=1MHz		10	13	pF

### Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Note:

2. TLP Parameter:  $Z_0=50\Omega$ ,  $t_p=100$ ns,  $t_r=2$ ns, Averaging Window from 60ns to 80ns. RDYN 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.

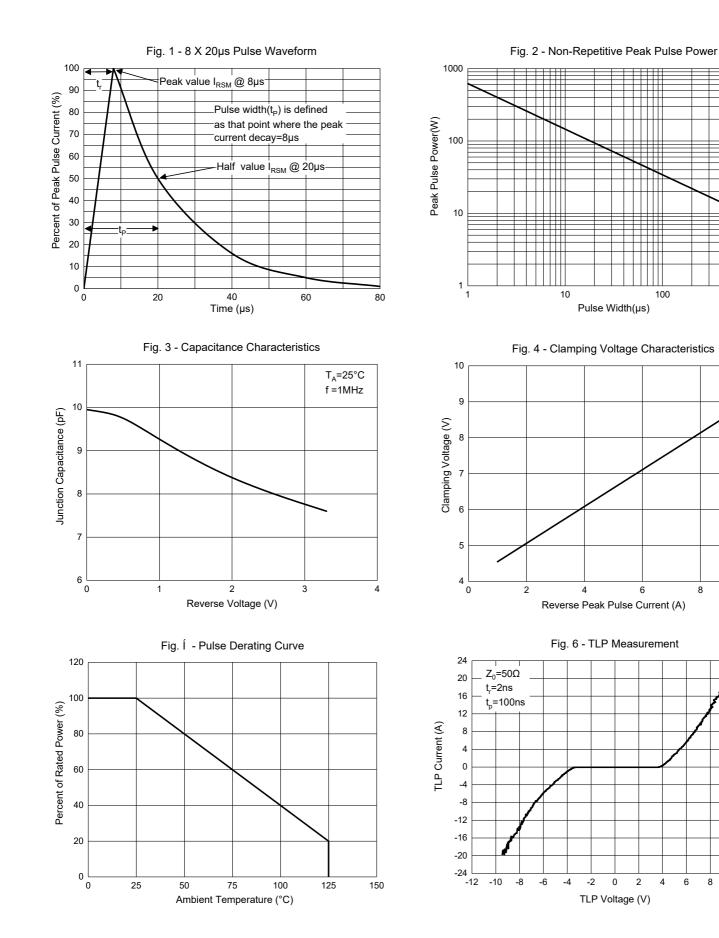


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# **Curve Characteristics**



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## **Ordering Information**

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

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