

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

Peak Pulse Power (8/20µs)

- 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 _{PP}	4A	

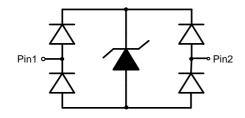
Note:

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

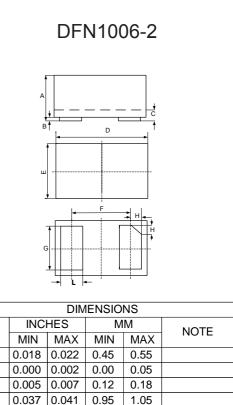
 P_{PK}

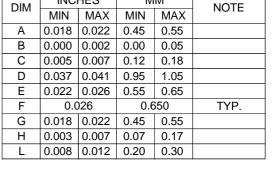
40W

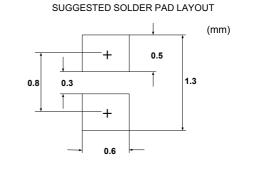
Internal Structure













Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				18	V
Reverse Breakdown Voltage	V _{BR}	$I_T = 1mA$	18.5			V
Reverse Leakage Current	I _R	V _{RWM} =18V		<1	50	nA
Clamping Voltage ^(Note 2)	V _c	I _{PP} =16A, t _P =100ns		10		V
Dynamic Resistance ^(Note 2)	R _{DYN}			0.25		Ω
Clamping Voltage ^(Note 3)	Vc	V _{ESD} =8KV		10		V
Clamping Voltage ^(Note 4)	V _c	I _{PP} =1A, t _P =8/20μs		5	6	V
Clamping Voltage ^(Note 4)	Vc	I _{PP} =4A, t _P =8/20μs		9	10	V
Junction Capacitance	CJ	V _R =0V, f=1MHz		0.35	0.5	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. 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

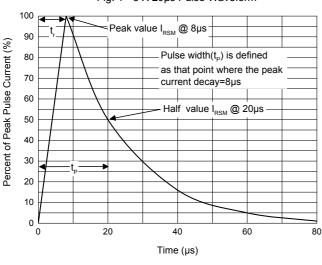
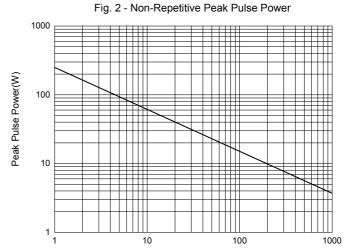
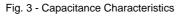
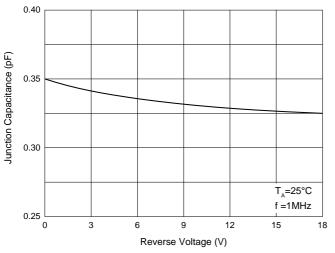


Fig. 1 - 8 X 20µs Pulse Waveform



Pulse Width(µs)







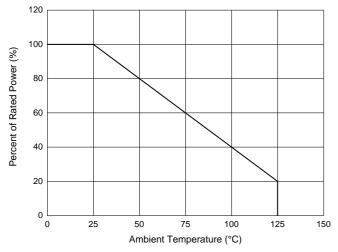
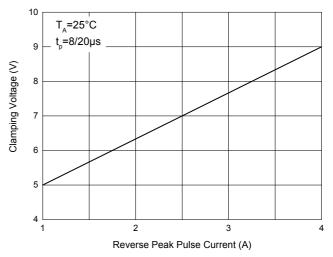


Fig. 4 - Clamping Voltage Characteristics





Ordering Information

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

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