

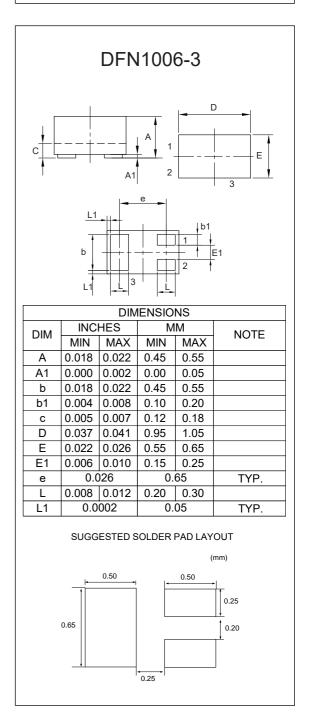
Features

- Solid-State Silicon Technology
- Low Leakage Current
- Low Capacitance
- Low Clamping Voltage
- Halogen Free
- 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

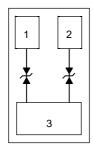




MCC Part Number	Device Marking	
ESDSBL5V0LTB	2A	

IEC61000-4-2(ESD)	Air Contact	±30KV ±30KV
IEC61000-4-4 (EFT) @5/50ns		40A
Peak Pulse Current(8/20µs)	I _{PP}	8A
Peak Pulse Power (8/20µs)	Р _{РК}	96W

Circuit and Pin Schematic





Parameter	Symbol	Conditions	Min.	Тур.	Max.	Units
Reverse Working Voltage	V _{RWM}				5	V
Reverse Leakage Current	I _R	V _{RWM} =5V			100	nA
Reverse Breakdown Voltage	V _{BR}	Ι _T = 1mA	5.3	6		V
Reverse Holding Voltage	V _{HOLD}	I _{HOLD} = 50mA	5.3	6		V
Clamping Voltage ^(Note 1)	V _C	I _{PP} =16A, t _P =100ns		10		V
Dynamic Resistance ^(Note 1)	R _{DYN}			0.2		Ω
Clamping Voltage ^(Note 2)	V _c	V _{ESD} =8KV		10		V
Clamping Voltage ^(Note 3) V _C	I _{PP} =1A, t _P =8/20μs			8	V	
	I _{PP} =8A, t _P =8/20μs			12	V	
Junction Capacitance C _J	V _R =0V, f=1MHz		10	13	pF	
	V _R =2.5V, f=1MHz		8	11	pF	

Electrical Characteristics @ 25°C (Unless Otherwise Specified)

Note:

1. TLP Parameter: Z_0 =50 Ω , t_p =100ns, t_r =2ns, Averaging Window from 60ns to 80ns. R_{DYN} is Calculated from 4A to 16

2. Contact Discharge Mode, According to IEC61000-4-2.

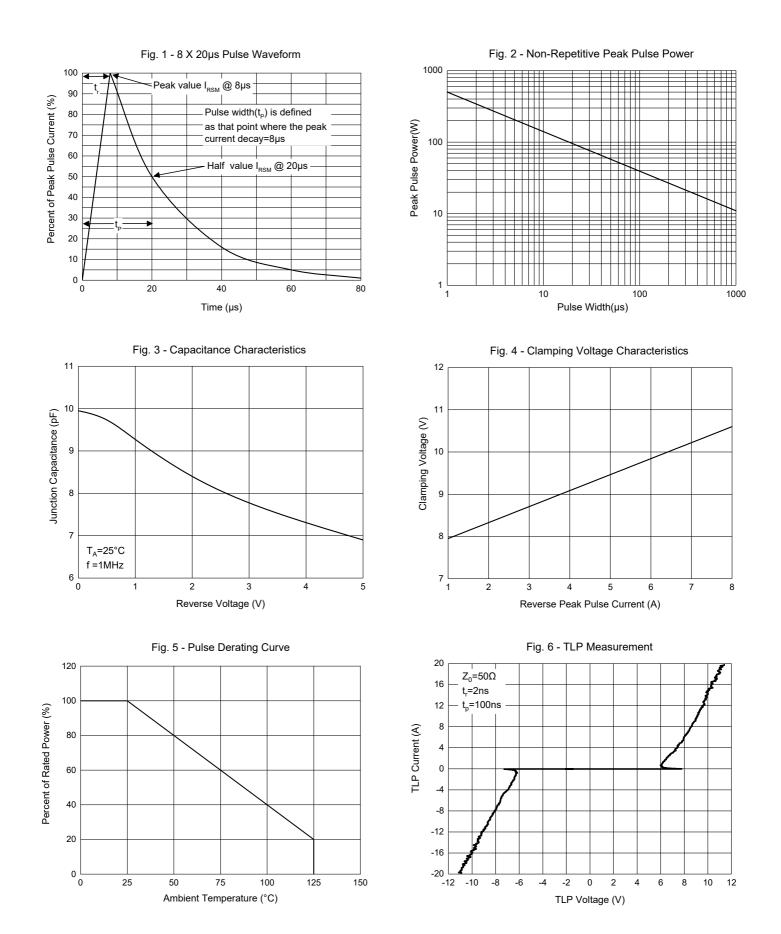
3. Non-repetitive Current Pulse, According to IEC61000-4-5.

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Curve Characteristics





Ordering Information

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

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