

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 |
|--------------------|----------------|
| ESDSB5V5LB | 6A |
| | |

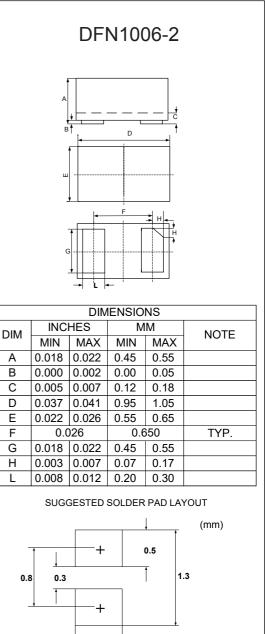
| IEC61000-4-2(ESD) | Air Contact | ±30KV ±30KV |
|----------------------------|-----------------|----------------|
| IEC61000-4-4 (EFT) @5/50ns | | 40A |
| Peak Pulse Current(8/20µs) | I _{PP} | 6A |
| Peak Pulse Power (8/20µs) | Р _{РК} | 72W |

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

-0



0.6



| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|--|-------------------|---|------|------|------|-------|
| Reverse Working Voltage | V _{RWM} | | | | 5.5 | V |
| Reverse Breakdown Voltage | V _{BR} | I _T =1mA | 6.1 | 7 | | V |
| Reverse Holding Voltage | V _{HOLD} | I _T =50mA | 6.1 | 7 | | V |
| Reverse Leakage Current | I _R | V _{RWM} =5.5V | | | 100 | nA |
| Clamping Voltage ^(Note 2) | V _C | I _{PP} =16A, t _P =100ns | | 11 | | V |
| Dynamic Resistance ^(Note 2) | R _{DYN} | | | 0.28 | | Ω |
| Clamping Voltage ^(Note 3) | V _C | V _{ESD} =8KV | | 11 | | V |
| Clamping Voltage ^(Note 4) | V _c | I _{PP} =1A, t _P =8/20μs | | | 8 | V |
| Clamping Voltage ^(Note 4) | V _C | I _{PP} =6A, t _P =8/20μs | | | 12 | V |
| Junction Capacitance | CJ | V _R =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.

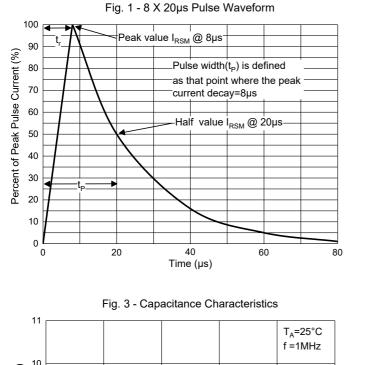
3. Contact Discharge Mode, According to IEC61000-4-2.

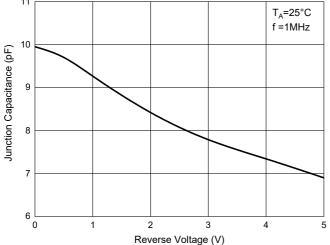
4. Non-repetitive Current Pulse, According to IEC61000-4-5.



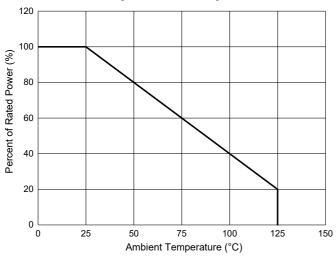


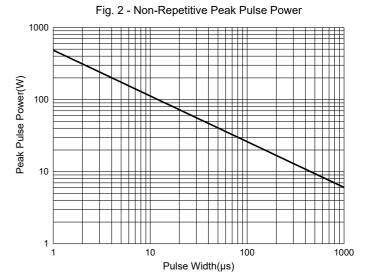
Curve Characteristics



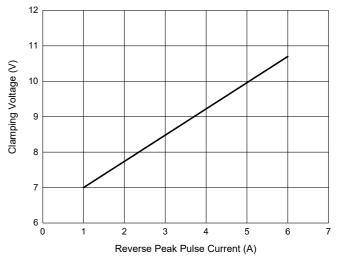




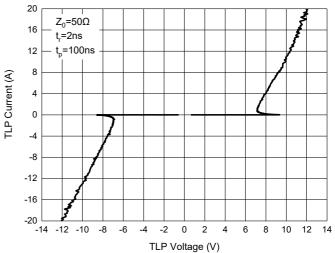














| Device | Packing |
|----------------|------------------------|
| Part Number-TP | Tape&Reel: 10Kpcs/Reel |

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