

Features

- Protects One Data or Power Line
- Ultra Low Leakage
- 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 | | |
|--------------------|----------------|----------------|--|
| ESDH1V8LB | P18 | | |
| | | | |
| IEC61000-4-2(ESD) | Air Contact | ±30KV +30KV | |

| IEC61000-4-2(ESD) | Contact | ±30KV |
|----------------------------|-----------------|-------|
| Peak Pulse Current(8/20µs) | I _{PP} | 38A |
| Peak Pulse Power (8/20µs) | P _{PK} | 300W |

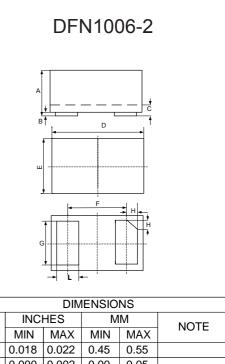
Note:

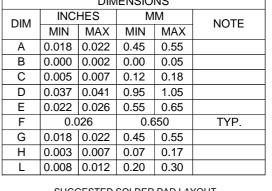
1. Halogen free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.

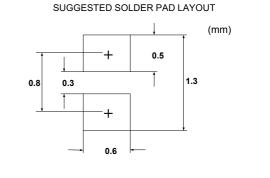
Internal Structure

-0









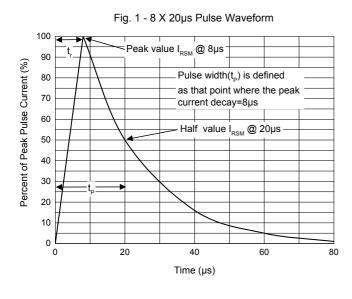


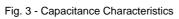
Electrical Characteristics @ 25°C (Unless Otherwise Specified)

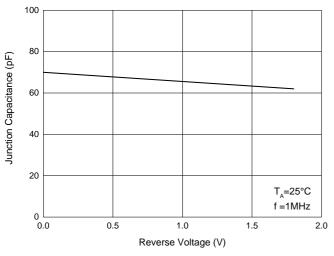
| Parameter | Symbol | Conditions | Min. | Тур. | Max. | Units |
|---------------------------|------------------|--|------|------|------|-------|
| Reverse Working Voltage | V _{RWM} | | | | 1.8 | V |
| Reverse Breakdown Voltage | V _{BR} | I _T =1mA | 2.5 | | | V |
| Reverse Leakage Current | I _R | V _{RWM} =1.8V | | | 0.2 | μA |
| Clamping Voltage | V _C | I _{PP} =1A, t _P =8/20μs | | | 3.5 | V |
| Clamping Voltage | V _C | I _{PP} =38A, t _P =8/20μs | | | 8 | V |
| Junction Capacitance | CJ | V _R =0V, f=1MHz | | | 80 | pF |



Curve Characteristics









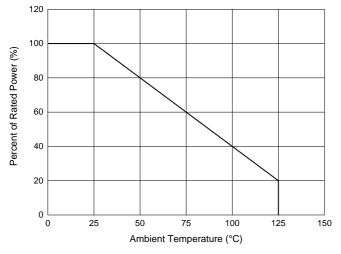


Fig. 2 - Non-Repetitive Peak Pulse Power

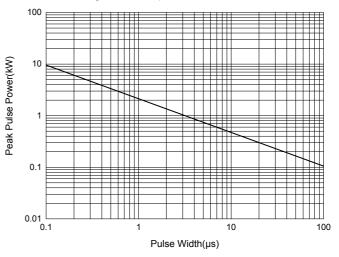
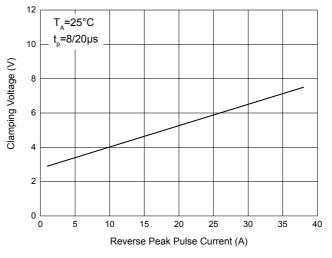


Fig. 4 - Clamping Voltage Characteristics







Ordering Information

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

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