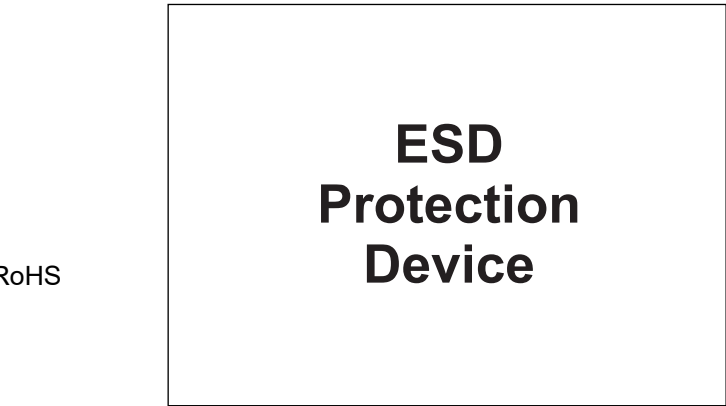


Features

- Low Clamping Voltage
- Ultra Low Capacitance
- 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 +150°C
- Storage Temperature Range: -55°C to +150°C



DFN1006-2L

| DIMENSIONS | | | | | |
|------------|--------|-------|-------|------|------|
| DIM | INCHES | | MM | | NOTE |
| | MIN | MAX | MIN | MAX | |
| A | 0.037 | 0.041 | 0.95 | 1.05 | |
| B | 0.022 | 0.026 | 0.55 | 0.65 | |
| C | 0.016 | 0.020 | 0.40 | 0.50 | |
| C1 | ----- | 0.002 | ----- | 0.05 | |
| D | 0.001 | 0.003 | 0.02 | 0.08 | |
| E | 0.026 | | 0.65 | | TYP. |
| F | 0.008 | 0.012 | 0.20 | 0.30 | |
| G | 0.018 | 0.022 | 0.45 | 0.55 | |

| MCC Part Number | Device Marking |
|-----------------|----------------|
| ESDSL5V0L2B | 5N or BV |

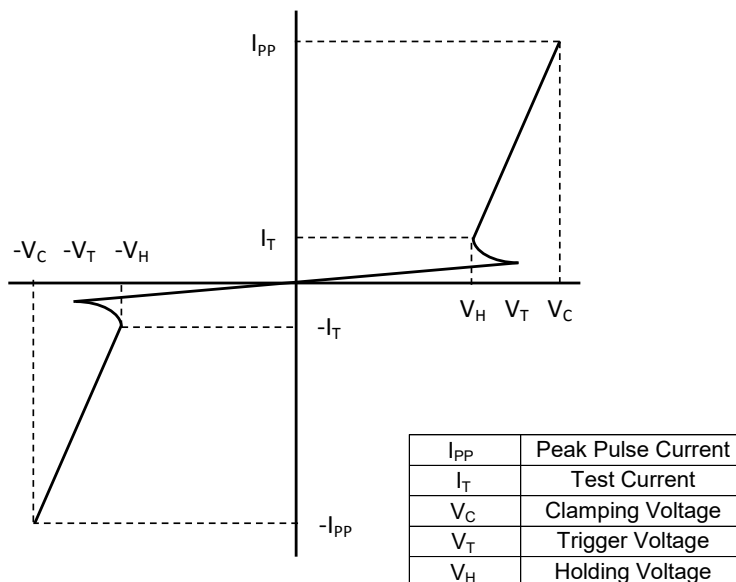
| | | |
|----------------------------|-----------------|----------------|
| IEC61000-4-2(ESD) | Air Contact | ±20KV ±20KV |
| IEC61000-4-4 (EFT) @5/50ns | | 40A |
| Peak Pulse Current(8/20µs) | I _{PP} | 3A |
| Peak Pulse Power (8/20µs) | P _{PK} | 40W |

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



ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted)



Electrical Characteristics @ 25°C (Unless Otherwise Specified)

| Parameter | Symbol | Conditions | Min. | Typ. | Max. | Units |
|-------------------------|------------|-------------------------------------------------------------------------------------------|------|------|------|-------|
| Reverse Working Voltage | V_{RWM} | | | | 5.5 | V |
| Trigger Voltage | V_{TRIG} | High Voltage than V_{TRIG} Guarantees the Protection Turn-On | 6.5 | | | V |
| Holding Voltage | V_H | $I_H=1\text{mA}$, Lower Voltage than V_{TRIG} Guarantees the Protection Turn-Off | 6.1 | 7 | 8.8 | V |
| Reverse Leakage Current | I_R | $V_{RWM} = 5.5\text{V}$ | | | 50 | nA |
| Clamping Voltage | V_C | $I_{PP}=1\text{A}$, $t_p=8/20\mu\text{s}$ | | | 13 | V |
| Clamping Voltage | V_C | $I_{PP}=3\text{A}$, $t_p=8/20\mu\text{s}$ | | | 15 | V |
| Junction Capacitance | C_J | $V_R = 0\text{V}$, $f = 1\text{MHz}$ | | 0.15 | 0.2 | pF |

Curve Characteristics

Fig. 1 - 8 X 20µs Pulse Waveform

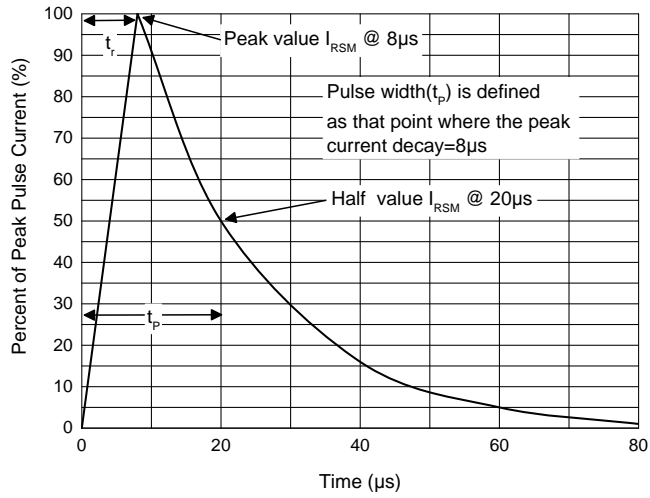


Fig. 2 - Non-Repetitive Peak Pulse Power

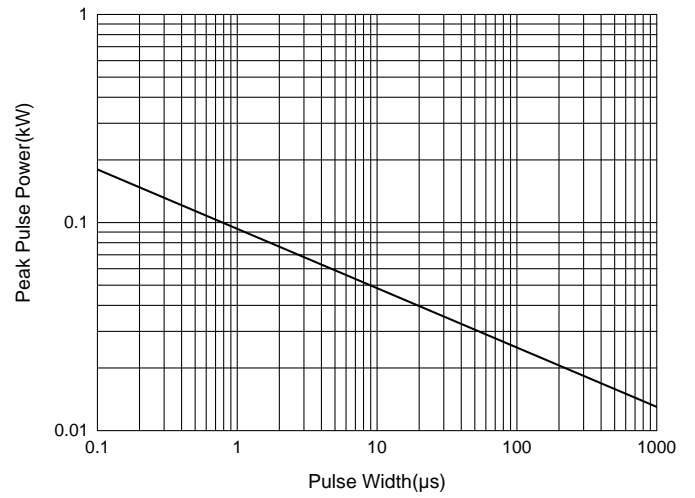


Fig. 3 - Power Derating Curve

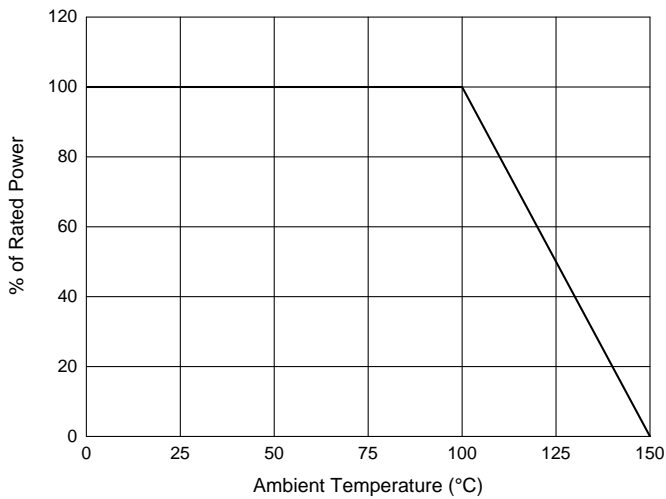


Fig. 4 - Clamping Voltage Characteristics

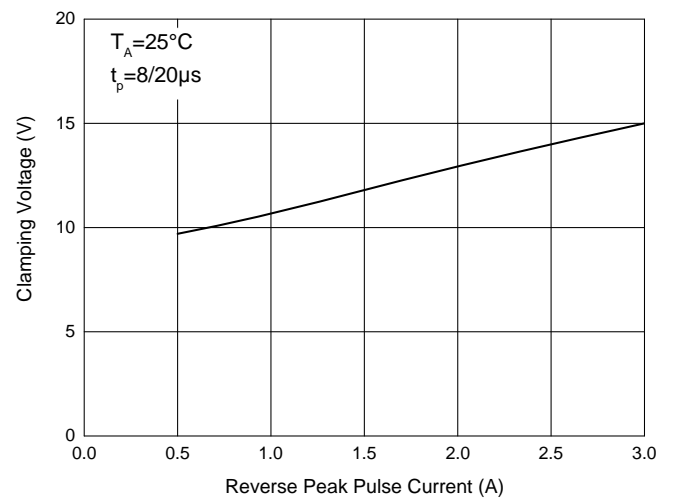
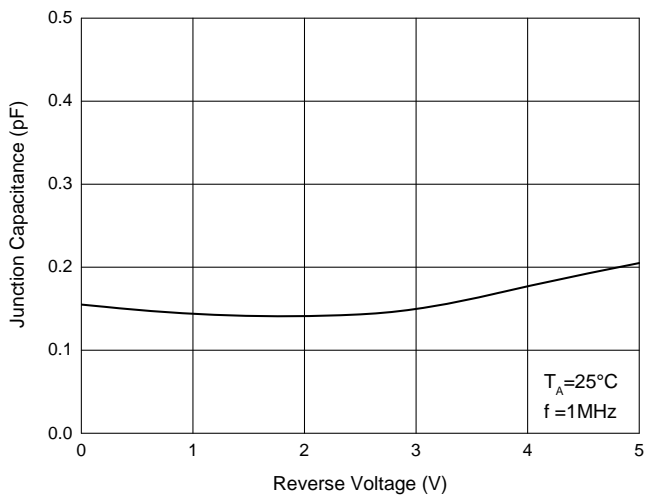


Fig. 5 - Capacitance Characteristics



Ordering Information

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

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