

#### **Features**

- · High Power Rating
- · Low Capacitance
- Low Leakage
- · Low Clamping Voltage
- · Moisture Sensitivity Level 1
- Epoxy Meets UL 94 V-0 Flammability Rating
- · Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant ("P" Suffix Designates RoHS Compliant. See Ordering Information)

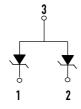
## **Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

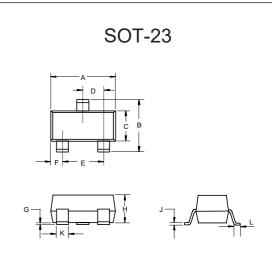
| MCC<br>Part Number | Device Marking |
|--------------------|----------------|
| ESDSLC5V0T2        | 5M             |

| IEC61000-4-2(ESD)          | Air<br>Contact  | ±20KV<br>±15KV |  |  |
|----------------------------|-----------------|----------------|--|--|
| Peak Pulse Current(8/20μs) | I <sub>PP</sub> | 5A             |  |  |
| Peak Pulse Power (8/20us)  | P <sub>PK</sub> | 100W           |  |  |

#### **Internal Structure**

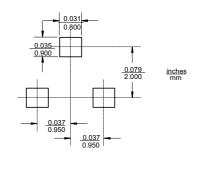


# ESD Protection Device



| DIMENSIONS |        |       |           |      |  |
|------------|--------|-------|-----------|------|--|
| DIM INCHES |        | MM    |           | NOTE |  |
| DIIVI      | MIN    | MAX   | X MIN MAX | NOTE |  |
| Α          | 0.110  | 0.120 | 2.80      | 3.04 |  |
| В          | 0.083  | 0.104 | 2.10      | 2.64 |  |
| С          | 0.047  | 0.055 | 1.20      | 1.40 |  |
| D          | 0.034  | 0.041 | 0.85      | 1.05 |  |
| Е          | 0.067  | 0.083 | 1.70      | 2.10 |  |
| F          | 0.018  | 0.024 | 0.45      | 0.60 |  |
| G          | 0.0004 | 0.006 | 0.01      | 0.15 |  |
| Н          | 0.035  | 0.043 | 0.90      | 1.10 |  |
| J          | 0.003  | 0.007 | 0.08      | 0.18 |  |
| K          | 0.012  | 0.020 | 0.30      | 0.51 |  |
| L          | 0.007  | 0.020 | 0.20      | 0.50 |  |

#### Suggested Solder Pad Layout



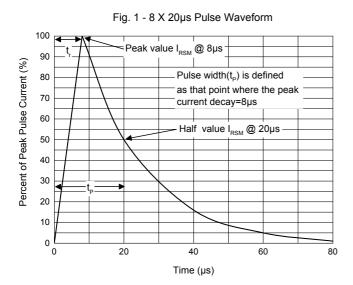


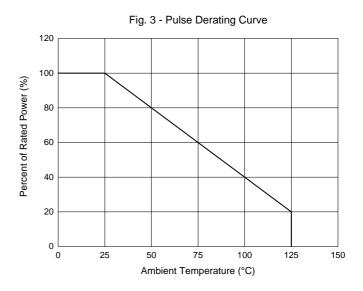
## Electrical Characteristics @ 25°C (Unless Otherwise Specified)

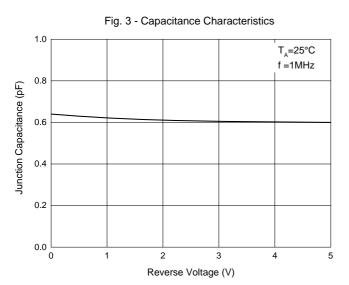
| Parameter                 | Symbol         | Conditions   | Min. | Тур. | Max. | Units |
|---------------------------|----------------|--|------|------|------|-------|
| Reverse Working Voltage   | $V_{RWM}$      | Pin 1 or Pin 2 to Pin 3<br>and Between<br>Pin 1 and Pin 2                          |      |      | 5    | V     |
| Reverse Breakdown Voltage | $V_{BR}$       | I <sub>T</sub> = 1mA, Pin 1 or<br>Pin 2 to Pin 3<br>and Between Pin 1<br>and Pin 2 | 6    |      |      | V     |
| Reverse Leakage Current   | I <sub>R</sub> | V <sub>RWM</sub> =5V,Pin 1 or<br>Pin 2 to Pin 3<br>and Between Pin 1<br>and Pin 2  |      |      | 0.5  | μА    |
| Clamping Voltage          | V <sub>C</sub> | I <sub>PP</sub> =1A, t <sub>P</sub> =8/20μs,<br>Pin 1 or<br>Pin 2 to Pin 3         |      | 10   | 15   | V     |
| Clamping Voltage          | V <sub>C</sub> | I <sub>PP</sub> =5A, t <sub>P</sub> =8/20μs,<br>Pin 1 or<br>Pin 2 to Pin 3         |      | 15   | 20   | V     |
| Junction Capacitance      | C <sub>J</sub> | V <sub>R</sub> = 0V, f = 1MHz,<br>Between Pin 1 and<br>Pin 2                       |      | 0.3  | 0.4  | pF    |
| Junction Capacitance      | CJ             | V <sub>R</sub> = 0V, f = 1MHz,<br>Pin 1 or Pin 2<br>to Pin 3                       |      |      | 0.8  | pF    |

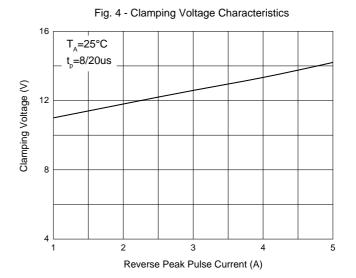


#### **Curve Characteristics**











### **Ordering Information**

| Device         | Packing               |
|----------------|-----------------------|
| Part Number-TP | Tape&Reel: 3Kpcs/Reel |

Note: Adding "-HF" Suffix for Halogen Free, eg. Part Number-TP-HF

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