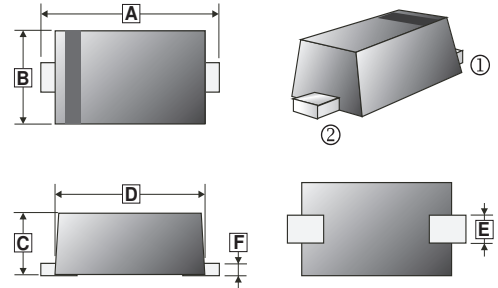


RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

**FEATURES**

- 61000-4-2(ESD) : Air-15KV, Contact-8KV
- Unidirectional & Birectional Configurations
- Replacement for MLV (0805)
- Protects One Power or I/O Port
- Low Clamping Voltage
- Ultra Low Capacitance : 3pF Maximum

**SOD-323L**



**MECHANICAL DATA**

- Case : SOD-323, Molded plastic over passivated junction
- Terminals : Solderable per MIL-STD-750, Method 2026
- Approx. Weight : 0.0041 grams
- Mounting Position : Any

| REF. | Millimeter |      | REF. | Millimeter |      |
|------|------------|------|------|------------|------|
|      | Min.       | Max. |      | Min.       | Max. |
| A    | 2.30       | 2.70 | D    | 1.60       | 1.80 |
| B    | 1.15       | 1.35 | E    | 0.25       | 0.40 |
| C    | 0.80       | 1.00 | F    | 0.05       | 0.25 |

**PACKAGE INFORMATION**

| Package  | MPQ | Leader Size |
|----------|-----|-------------|
| SOD-323L | 5K  | 7 inch      |

**MARKING**

|                    |               |               |               |               |               |               |
|--------------------|---------------|---------------|---------------|---------------|---------------|---------------|
| <b>Part Number</b> | <b>SDL03</b>  | <b>SDL05</b>  | <b>SDL08</b>  | <b>SDL12</b>  | <b>SDL15</b>  | <b>SDL24</b>  |
| <b>Marking</b>     | AA            | AB            | AC            | AJ            | AS            | AT            |
| <b>Part Number</b> | <b>SDL03C</b> | <b>SDL05C</b> | <b>SDL08C</b> | <b>SDL12C</b> | <b>SDL15C</b> | <b>SDL24C</b> |
| <b>Marking</b>     | AQ            | AL            | AR            | AM            | AN            | AP            |

**MAXIMUM RATINGS** (T<sub>A</sub>=25°C unless otherwise specified)

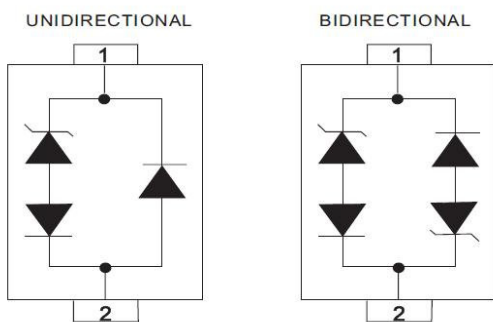
| Parameter  | Symbol                            | Value   | Unit |
|--|-----------------------------------|---------|------|
| Peak Pulse Power@ tp=8/20µs, see fig. 1          | P <sub>PP</sub>                   | 350     | W    |
| Operating Junction and Storage Temperature Range | T <sub>J</sub> , T <sub>STG</sub> | -55~150 | °C   |

**ELECTRICAL CHARACTERISTICS PER LINE** ( $T_A=25^\circ\text{C}$  unless otherwise specified)

| Part Number <sup>1,2</sup> | Peak Power Dissipation | Rated-Stand-Off Voltage | Reverse Breakdown Voltage |                |       |      | Maximum Clamping Voltage @ 8/20 $\mu\text{s}$ (see fig.2), $P_{PPM}$ |      | Leakage Current | Off-State Capacitance, 1MHz Zero dc Bias |
|----------------------------|------------------------|-------------------------|---------------------------|----------------|-------|------|--|------|-----------------|--|
|                            |                        |                         | $V_{RWM}$                 | $V_{BR} @ I_T$ |       |      | $V_C @ I_{PP}$   |      |                 | $I_R @ V_{RWM}$                          |
|                            |                        | Max.                    | Min.                      | Max.           | $I_T$ | V    | A  | Max. | Max.            |  |
|                            |                        | W                       | V                         | V              | V     | mA   | V  | A    | $\mu\text{A}$   | pF                                       |
| SDL03                      | 350                    | 3                       | 4.75                      | 5.25           | 1     | 7.5  | 1  | 20   | 3               |  |
| SDL03C                     | 350                    | 3                       | 4.75                      | 5.25           | 1     | 7.5  | 1  | 20   | 3               |  |
| SDL05                      | 350                    | 5                       | 7.03                      | 7.77           | 1     | 9.8  | 1  | 5    | 3               |  |
| SDL05C                     | 350                    | 5                       | 7.03                      | 7.77           | 1     | 9.8  | 1  | 5    | 3               |  |
| SDL08                      | 350                    | 8                       | 8.93                      | 9.87           | 1     | 13.4 | 1  | 1    | 3               |  |
| SDL08C                     | 350                    | 8                       | 8.93                      | 9.87           | 1     | 13.4 | 1  | 1    | 3               |  |
| SDL12                      | 350                    | 12                      | 13.97                     | 15.44          | 1     | 19   | 1  | 1    | 3               |  |
| SDL12C                     | 350                    | 12                      | 13.97                     | 15.44          | 1     | 19   | 1  | 1    | 3               |  |
| SDL15                      | 350                    | 15                      | 17.39                     | 19.22          | 1     | 24   | 1  | 1    | 3               |  |
| SDL15C                     | 350                    | 15                      | 17.39                     | 19.22          | 1     | 24   | 1  | 1    | 3               |  |
| SDL24                      | 350                    | 24                      | 27.27                     | 30.14          | 1     | 43   | 1  | 1    | 3               |  |
| SDL24C                     | 350                    | 24                      | 27.27                     | 30.14          | 1     | 43   | 1  | 1    | 3               |  |

Notes :

1. The part numbers with an additional "C" suffix are bidirectional devices, i.e. SDL03C.
2. Unidirectional Only : Positive potential is applied from pin 1 to 2



**RATINGS AND CHARACTERISTICS CURVES**

