



VOLTAGE

5 Volt

POWER

400 Watt

ULTRA LOW CAPACITANCE DUAL TRANSIET VOLTAGE SUPPRESSOR FOR HIGH SPEED DATA LINES

This transient overvoltage suppressor is intended to protect sensitive equipment against electrostatic discharge events as well to offer a minimum insertion loss in data transmission lines in communications ports used in portable consumer, computing and networking applications. This dual transient voltage suppressor comes in a single SOT-23, offering board space reduction, where the application requires it.

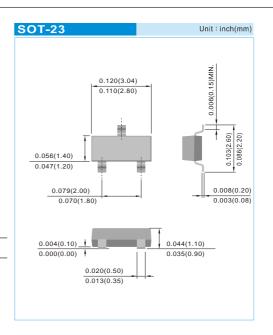
This device comes with two pairs of high speed switching diodes connected in series, where both pairs are electrically isolated, offering a very low capacitance, minimizing the insertion losses in data transmission lines.

FEATURES

- Maximum capacitance @ 0 Vdc Bias of 1 pF between terminals 1-3 or terminals 2-3
- IEC61000-4-2 esd 15kV Air, 8kV contact compliance
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- · Case: SOT-23, plastic
- Terminals: solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.0003 ounce, 0.0084 gram
- Marking: DEA



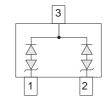


Fig.21

MAXIMUM RATINGS

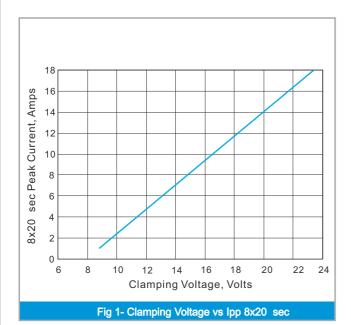
| Parameter | Symbol | Value | Units | |
|---------------------------|--------|-------------|-------|--|
| Operating Junction | TJ | -55 to +150 | °C | |
| Storage Temperature Range | Тѕтс | -55 to +150 | οС | |

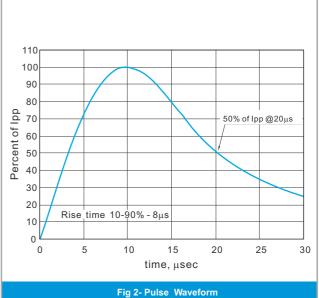
ELECTRICAL CHARACTERISTICS

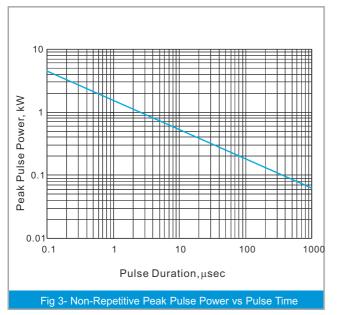
| Parameter | Symbol | Conditions | Minimum | Typical | Maximum | Units |
|---------------------------|------------------|--|---------|---------|---------|-------|
| Reverse Stand-Off Voltage | V _{RWM} | - | - | - | 5 | V |
| Reverse Breakdown Voltage | V _{BR} | I _T =1mA | 6 | - | - | V |
| Reverse Leakage Current | I _R | V _{RWM} = 5V, T = 25°C | - | 0.8 | 1.2 | μА |
| Junction Capacitance | C _J | Between pin1.2 to 3 V _R =0V,f=1MHz | - | - | 1 | pF |
| Peak Pulse Current | I _{PP} | t _p =8/20 μsec | - | - | 17 | А |
| Clamping Voltage | V _c | t _P =8/20 μsec @1A | = | - | 9.5 | V |
| Clamping Voltage | V _c | t _P =8/20 μsec @5A | - | - | 12 | ٧ |

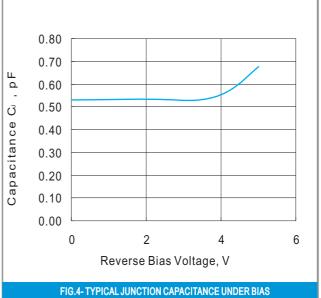








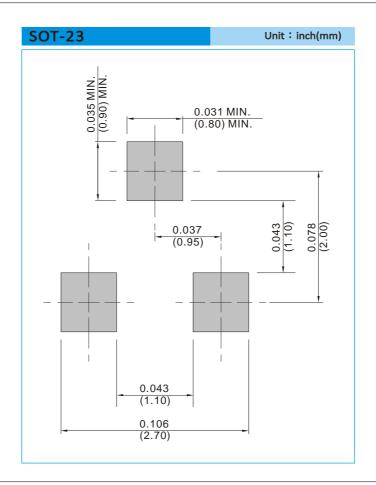








MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

PJDLC05C-05_R1_00001 PJDLC05C-05_R2_00001

For example:



| Packing Code XX | | | Version Code XXXXX | | | |
|--------------------------------------|----------------------|-----------------------------------|----------------------|------------|----------------------|---------------------------------------|
| Packing type | 1 st Code | Packing size code | 2 nd Code | HF or RoHS | 1 st Code | 2 nd ~5 th Code |
| Tape and Ammunition Box (T/B) | Α | N/A | 0 | HF | 0 | serial number |
| Tape and Reel (T/R) | R | 7" | 1 | RoHS | 1 | serial number |
| Bulk Packing (B/P) | В | 13" | 2 | | | |
| Tube Packing (T/P) | Т | 26mm | X | | | |
| Tape and Reel (Right Oriented) (TRR) | S | 52mm | Y | | | |
| Tape and Reel (Left Oriented) (TRL) | L | PANASERT T/B CATHODE UP (PBCU) | U | | | |
| FORMING | F | PANASERT T/B CATHODE DOWN (PBCD) | D | | | |





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