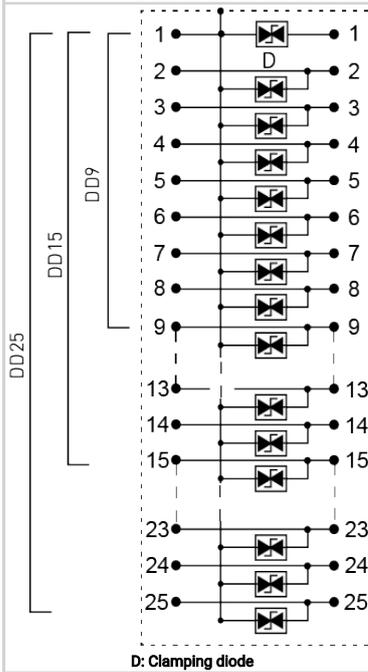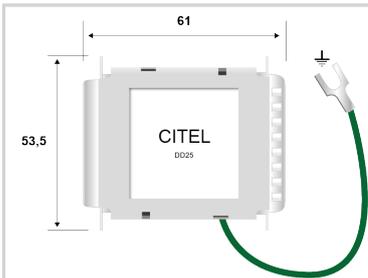# DATA LINE SPD - UL497B - Imax 1kA - In 1kA

# DD25-24V

• Data Line Surge Protector for RS Networks • 9, 15 and 25-Pin D-Sub Connectors • Supports Data Rates Up to 40Mbps • Fast and Easy Installation • Ideal for Equipment Level Protection • UL497B Listed



D: Clamping diode

| Electrical Characteristics | | |
|---|---|---|
| Network | | RS232, RS485, 4-20mA |
| Nominal line voltage | Un | 24 Vdc |
| Max. DC operating voltage | Uc | 40 Vdc |
| Max. frequency | f max. | > 10 MHz |
| Max. data rate | | < 40 Mbps |
| Insertion loss | | < 1 dB |
| Max. load current @25°C | IL | 750 mA |
| Max. discharge current *max. withstand @ 8/20 µs by pole* | Imax | 20 kA |
| Nominal discharge current *C2 Category* | In | 5 kA |
| Nominal Discharge Current, X-C (Line/Earth) *8/20µs Test x 10 - C2 Category* | In L/PE | 300 A |
| Total Maximum discharge current *max. total withstand @ 8/20 µs* | Imax Total | 20 kA |
| Protection mode(s) | | Common/Differential mode |
| Protection Level *C3 (10/1000µs), 300 applications@10 A, Y-Y (Line/Line)* | Up | 18 V |
| Protection Level *C3 (10/1000µs), 300 applications@10 A, X-C (Line/Earth)* | Up | 20 V |
| Max. capacitance | C | <30 pF |
| Impulse current *2 x 10/350µs Test - D1 Category* | Iimp | 2.5 kA |
| Capacitance *@1MHz, X-C (Line/Earth)* | C | < 500 pF |
| DATA SPD TYPE | | UL497B LISTED |
| VOLTS | (V) | 6 |
| WIRES | | 25W+GROUND |
| LINE CURRENT MAX | (A) | 0.3 |
| AMBIENT MIN | (C) | -50 |
| AMBIENT MAX | (C) | +85 |
| RESIDUAL VOLTAGE | (V) | 20 |
| MCOV | (V) | 28/ |
| IMAX *8/20µs* | (kA) | 1 |
| Iimp *10/350µs* | (kA) | |
| DATA SPEED | (Mbps) | up to 10MHz |

| Installation | | |
|---|---|---|
| Operating Temperature *Min* | °C | -40.0000 |
| Operating Temperature *Max* | °C | 85.0000 |
| Operating Temperature *Min* | °F | -40.0000 |
| Operating Temperature *Max* | °F | 85.0000 |
| Operating Relative Humidity *Max* | %RH | 95 |
| Operating Altitude *Min* | Ft | 2000.0000 |
| Operating Altitude *Max* | Ft | 6500.0000 |
| Housing/Enclosure material | | Thermoplastic |
| Flammability rating *UL 94* | | V0 |
| Mounting | | D-Sub connector |
| IP Environmental rating *IP* | | IP20 |
| Installation Location | | Indoor |
| Accessories | | 90° Stainless steel bracket |
| Product Dimension *L* | mm | 61.0000 |
| Product Dimension *W* | mm | 53.5000 |
| Product Dimension *L* | In | 2.4000 |
| Product Dimension *W* | In | 2.1000 |

| Miscelaneous | | |
|---|---|---|
| Individual Pack | | Yes |

## DD25-24V

| | | |
|---|---|---|
| Storage Temperature*Min* | °C | -40.0000 |
| Storage Temperature*Max* | °C | 85.0000 |
| Storage Temperature*Min* | °F | -40.0000 |
| Storage Temperature*Max* | °F | 85.0000 |
| Storage Relative Humidity*Max* | %RH | 95.0000 |
| **Installation** | | |
| Cable type | | Serial cable |
| **Mechanical Characteristics** | | |
| Technology | | Diode écrêtage |
| Connection to Network | | D-Sub 25 pts Male/Female Input/output |
| Format | | In/out D-Sub connector unit |
| Operating temperature | Tu | -40/+85°C |
| Protection rating | | IP20 |
| Failsafe mode | | Short-circuit - transmision cut-off - fault mode 2 |
| Pinout | | all wires transmitted and protected |
| TECHNOLOGY | | SAD |
| NETWORK CONFIGURATION | | 15W+G |
| CONNECTION METHOD | | 24-pin D-Sub connector |
| MOUNTING | | SURFACE MOUNT |
| MATERIAL | | Thermoplastic UL94-V0 |
| NEMA RATING (IP RATING) | | NEMA 2 (IP20) |
| DIMENSIONS | | See diagram |
| WEIGHT | | 0.30 lbs |
| SPARE PART | | n/a |
| **Standards** | | |
| Certification | | UL 497B |
| UL STANDARD | | UL497B |
| UL CATEGORY | | QVGQ |
| UL FILE NUMBER | | E184939 |
| STANDARDS | | IEC 61643-21 |
| ENVIRONMENTAL STANDARDS | | ROHS |
| **Part number** | | |
| **6145** | | |