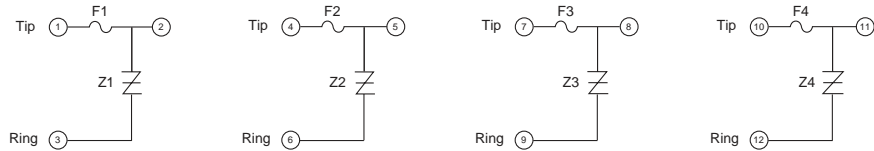


Four-port Metallic Line Protector

The four-port hybrid Single In-line Package (SIP) line protector protects multiple twisted pair from overcurrent and overvoltage conditions. Based on a SIP, it is equivalent to four discrete DO-214AA *SIDACTor* devices and four surface mount fuses. Available in surge current ratings up to 500 A, this four-port SIP line protector is ideal for densely populated line cards that cannot afford PCB inefficiencies or the use of series power resistors.



Electrical Parameters

| Part Number * | V _{DRM} Volts | V _S Volts | V _T Volts | I _{DRM} μ Amps | I _S mAmps | I _T Amps | I _H mAmps | C _O pF |
|---------------|------------------------|----------------------|----------------------|-----------------------------|----------------------|---------------------|----------------------|-------------------|
| P0080Z_ | 6 | 25 | 4 | 5 | 800 | 2.2 | 50 | 100 |
| P0300Z_ | 25 | 40 | 4 | 5 | 800 | 2.2 | 50 | 110 |
| P0640Z_ | 58 | 77 | 4 | 5 | 800 | 2.2 | 150 | 50 |
| P0720Z_ | 65 | 88 | 4 | 5 | 800 | 2.2 | 150 | 50 |
| P0900Z_ | 75 | 98 | 4 | 5 | 800 | 2.2 | 150 | 50 |
| P1100Z_ | 90 | 130 | 4 | 5 | 800 | 2.2 | 150 | 40 |
| P1300Z_ | 120 | 160 | 4 | 5 | 800 | 2.2 | 150 | 40 |
| P1500Z_ | 140 | 180 | 4 | 5 | 800 | 2.2 | 150 | 40 |
| P1800Z_ | 170 | 220 | 4 | 5 | 800 | 2.2 | 150 | 30 |
| P2300Z_ | 190 | 260 | 4 | 5 | 800 | 2.2 | 150 | 30 |
| P2600Z_ | 220 | 300 | 4 | 5 | 800 | 2.2 | 150 | 30 |
| P3100Z_ | 275 | 350 | 4 | 5 | 800 | 2.2 | 150 | 30 |
| P3500Z_ | 320 | 400 | 4 | 5 | 800 | 2.2 | 150 | 30 |

* For individual "ZA," "ZB," and "ZC" surge ratings, see table below.

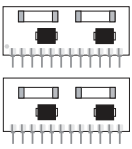
General Notes:

- All measurements are made at an ambient temperature of 25 °C. I_{PP} applies to -40 °C through +85 °C temperature range.
- I_{PP} is a repetitive surge rating and is guaranteed for the life of the product.
- Listed *SIDACTor* devices are bi-directional. All electrical parameters and surge ratings apply to forward and reverse polarities.
- V_{DRM} is measured at I_{DRM}.
- V_S is measured at 100 V/ μ s.
- Special voltage (V_S and V_{DRM}) and holding current (I_H) requirements are available upon request.
- Off-state capacitance (C_O) is measured at 1 MHz with a 2 V bias and is a typical value for "ZA" and "ZB" product. "ZC" capacitance is approximately 2x the listed value.
- Lower capacitance MC versions may be available. Contact factory for further information.

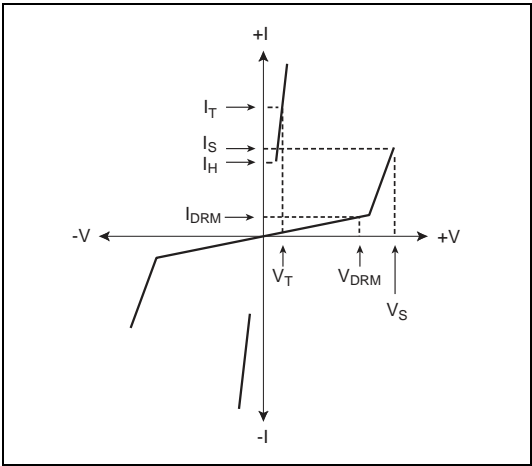
Surge Ratings

| Series | I _{PP} 2x10 μ s Amps | I _{PP} 8x20 μ s Amps | I _{PP} 10x160 μ s Amps | I _{PP} 10x560 μ s Amps | I _{PP} 10x1000 μ s Amps | I _{TSM} 60 Hz Amps | di/dt Amps/ μ s |
|--------|-----------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|-----------------------------|---------------------|
| A | 150 | 150 | 90 | 50 | 45 | 20 | 500 |
| B | 250 | 250 | 150 | 100 | 80 | 30 | 500 |
| C | 500 | 400 | 200 | 150 | 100 | 50 | 500 |

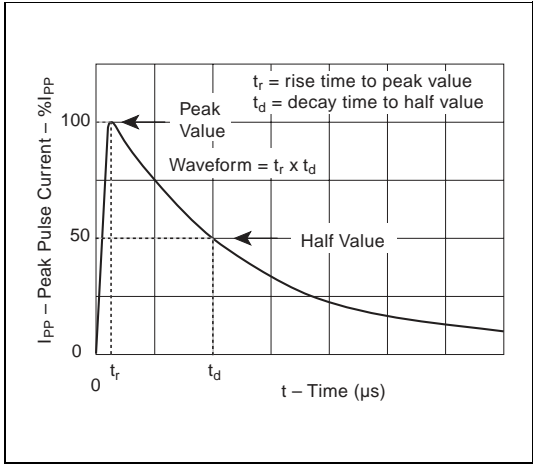
Thermal Considerations

| Package | Symbol | Parameter | Value | Unit |
|---|-----------------|---|-------------|----------------------|
|  | T_J | Operating Junction Temperature Range | -40 to +150 | $^{\circ}\text{C}$ |
| | T_S | Storage Temperature Range | -65 to +150 | $^{\circ}\text{C}$ |
| | $R_{\theta JA}$ | Thermal Resistance: Junction to Ambient | 90 | $^{\circ}\text{C/W}$ |

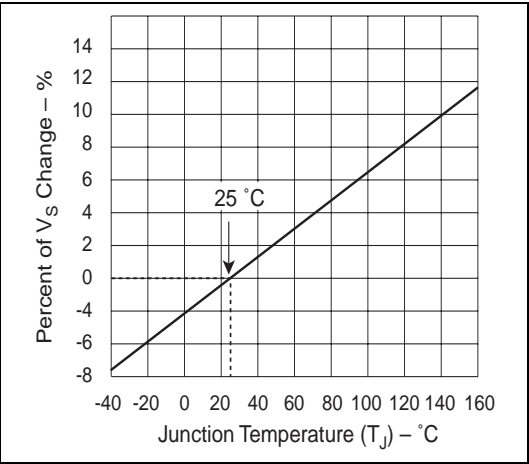
Data Sheets



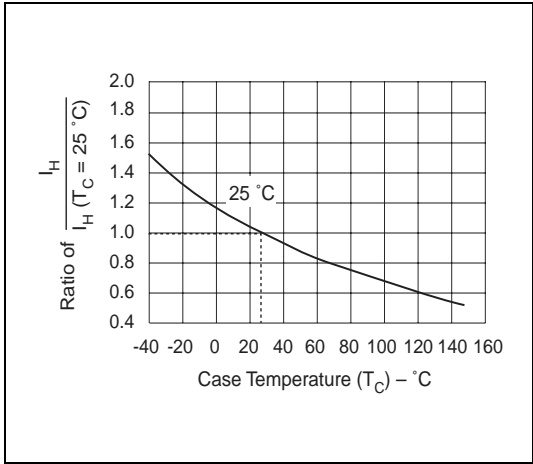
V-I Characteristics



$t_r \times t_d$ Pulse Waveform



Normalized V_S Change versus Junction Temperature



Normalized DC Holding Current versus Case Temperature